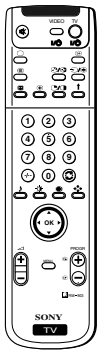
Self Diagnosis Supported model

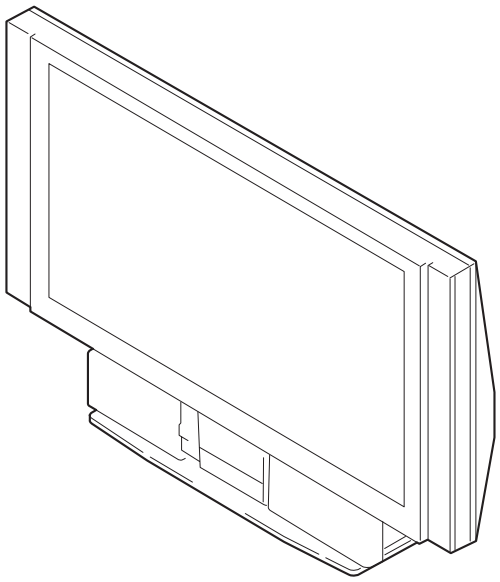
SERVICE MANUAL LE-3 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KF-50SX100	RM-903	AEP	SCC-P59A-A
KF-50SX100K	RM-903	OIRT	SCC-P60A-A
KF-50SX100U	RM-903	UK	SCC-P61A-A

MODEL	COMMANDER	DEST.	CHASSIS NO.



RM-903



KF-50SX100/50SX100K/50SX100U

LCD PROJECTION TV

SONY

* Please file according to model size. ..... □

SPECIFICATIONS

TV system
B/G/H, D/K, I, L

Colour system
PAL, SECAM
NTSC 3.58, 4.43 (only Video In)

Channel coverage
VHF: E2-E12
UHF: E21-E69
CATV: S1-S20
HYPER: S21-S41
D/K: R1-R12, R21-R69
I: UHF B21-B69
L: F2-F10, B-Q, F21-F69

Rear Terminals

- ◁ ←C– Centre speaker input terminals (2 terminals)
- ⊂- (L, R) audio outputs (phono jacks)
- ⊂→1/→⊂ 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
- ⊂→2/→Ⓢ 2 (SMARTLINK) 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output.
- ⊂→3/→Ⓢ 3 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, audio/video output (monitor out).

Front Terminals

→Ⓢ 4 S video input - 4 pin DIN
→ 4 video input - phono jack
→ 4 audio inputs - phono jacks
🎧 Headphones jack - minijack stereo

Sound output
2 x 30 W (music power)
2 x 15 W (RMS)

Centre SP input
30 W (RMS) (using as the centre speaker)

Power consumption
210 W

Standby Power consumption
< 1 W

Dimensions (w x h x d)
Approx. 1376 x 898 x 384 mm

Weight
Approx. 43 kg

Accessories supplied
1 Remote Control (RM-903)
2 Batteries (IEC designated)
1 Wrench
2 Brackets
2 Screws
1 Cleaning Cloth

Other features
Digital Comb filter (High resolution)
TELETEXT, Fastext, TOPtext (2000 page TEXT memory)
NexTView
NICAM
Sleep Timer
Smartlink
Noise Reduction
Graphic Equaliser
Personal ID

SELF DIAGNOSIS FUNCTION

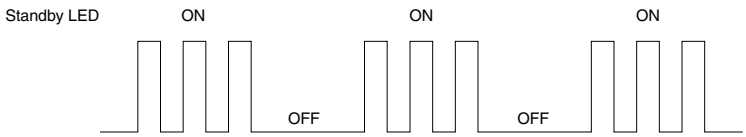
1-1. LE-3 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the LE-3 chassis is triggered in one of two ways : - 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No. of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is Burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
SET 5V Dowin	2 times	Q1606, 1607 Power FET is shorted (G Board)	Power does not come on Load on power line has shorted

ERROR	STBY LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash)	01
SET 5V Down	02
Lamp Cover error	03
Fan error	04
Lamp Driver error	05
Not used	06
Speaker Protection	07
General IIC Line 0 error	08
MEGATEXT (IC9502)	09
NVM (IC9108)	10
Main colour decoder (IC8301)	11
MCP (IC701)	14
Multi sound processor (IC4702)	15
Auto Wide (IC8700)	16
External RAM (IC9107)	17
Lamp error	Lamp LED continnously on

Flash Timing Example : e.g. error number 3



1-2. ERROR DETECTION MONITOR

Device acknowledge is used to check IIC errors.
Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error.
There are three step to check errors.

1. IIC line 0
   If all devices except the NVM have errors, IIC line 0 error is displayed.
2. Each device check
   if IIC line error and board error are not detected then the device with an error is displayed.

The detected errors can be displayed as follows:

1. Error Monitor Menu
2. Error Reader

1-2-1. Error Monitor Menu

The error monitor menu is displayed by selecting Service mode : Monittoring. The following menu will be displayed:

Error Monitor

1 Ignore Errors OFF ON ON

Operating Time : 000021 h 40 min

Stored Errors :

1. J-B MSP3410
2. B3-B CXA2101 MCP
3. J-B CXA2123 Main Col Dec
4. Error Code Not Valid
5. Error Code Not Valid

Current Error :
Start Error Sequence

Error Monittor

Error Monitor

1 LAMP : 0
5 LAMP DRIVER : 0
4 FAM : 0
3 LAMP COVER : 1
WDT-E : 0

LCD-Engine error menu

1-2-2. Error Reader Display

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10.

Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table:

	Send Data to Error Reader			
Error Code	Data High	Data Low	Error Type	Function
00 00h	–	f0h	no device	
Gen. IIC Error				
00 01h	f0h	01h	IIC 0 line	
00 02h	f0h	02h	IIC 1 line	not used
Device Error				
A Board				
01 01h	f1h	01h	CXA1875	Port Expander
01 02h	f1h	02h	TU1301	Main Tuner
01 03h	f1h	03h	TU1302	Sub Tuner
BB Board				
04 01h	f4h	01h	CXD9509	MID-X
BB Board				
06 01h	f6h	01h	CXA2101	MCP
J Board				
04 04h	f4h	04h	TDA9178	Picture Booster
07 03h	f7h	03h	CXA2123	Sub Colour
07 04h	f7h	04h	CXA2123	Main Colour
07 0Ah	f7h	0Ah	CXA2149	AV SW
S Board				
07 05h	f7h	05h	CXA1875	Sub Sound
07 08h	f7h	08h	MSP3410D	Sound Proc
M Board				
08 01h	f8h	01h	ST24C32	NVM

TABLE OF CONTENTS

Section Title Page

SELF DIAGNOSIS FUNCTION 3

1. GENERAL
Overview 8
Installation 9
First Time Operation 9
Menu System 10
Teletext 18
NexTView 19
Optional Connections 20
Additional Information 21

2. DISASSEMBLY
2-1. Rear Cover Assembly 23
2-2. Service Position 23
2-3. OU Bracket Removal 23
2-4. Duct Block Assembly 23
2-5. Power Block 24
2-6. Optical Unit Block Assembly 24
2-7. J Board Removal 25
2-8. M, BD, S, N Board Removal 25
2-9. T Board 25
2-10. A Board Removal 25
2-11. G Block Assembly Removal 26
2-12. G Board Removal 26
2-13. Front Cover Removal 26
2-14. Control Panel Block Assembly Removal 26
2-15. H4 Board Removal 27
2-16. H2 Board Removal 27
2-17. Screen, Mirror Block Assembly 27
2-18. Mirror Cover Block Assembly Removal 27
2-19. Contrast Screen, Diffusion Plates Removal 28
2-20. Squawker Block Assemblies, Woofer Block Assembly Removal 28
2-21. Speaker Removal 29
2-22. Mirror Removal 29
2-23. H1 Board Removal 29

3. ELECTRICAL ADJUSTMENTS
3-1. Adjustment With Commander 30
3-2. LCD Projecter Engine 42
3-3. Sub Colour Adjustment 42
3-4. RGB Output Level Adjustment 43
3-5. Vertical Stripe Adjustment 43
3-6. Sub Bright Adjustment 43
3-7. Screen Center Adjustment 44
3-8. Test-Test Mode 44

4. DIAGRAMS
4-1. Block Diagram (1) 47
Block Diagram (2) 50
Block Diagram (3) 53
Block Diagram (4) 57
Block Diagram (5) 61
Block Diagram (6) 61
Block Diagram (7) 64
4-2. Frame Schematic Diagrams 67
4-3. Circuit Boards Location 70
4-4. Printed Wiring Boards and Schematic Diagrams 70
• A Board 71
• BB (1/4) Board 81
• BB (2/4) Board 85
• BB (3/4) Board 89
• BB (4/4) Board 93
• M (1/2) Board 97
• M (2/2) Board 101
• J (1/2) Board 109
• J (2/2) Board 113
• H1 Board 117
• T Board 117
• H2 Board 118
• H4 Board 119
• N Board 120
• S Board 125
• G Board 127
4-5. Semiconductors 132

5. EXPLODED VIEWS
5-1. Mirror Section 134
5-2. Screen Section 135
5-3. Cabinet Section 136
5-4. Optical Unit Section 137
5-5. Chassis Section 138

6. ELECTRICAL PARTS LIST 139

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

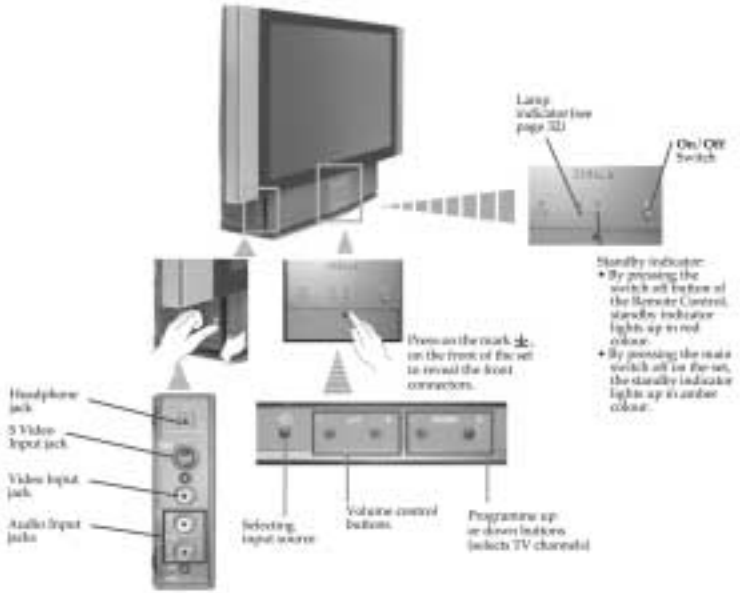
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1
GENERAL

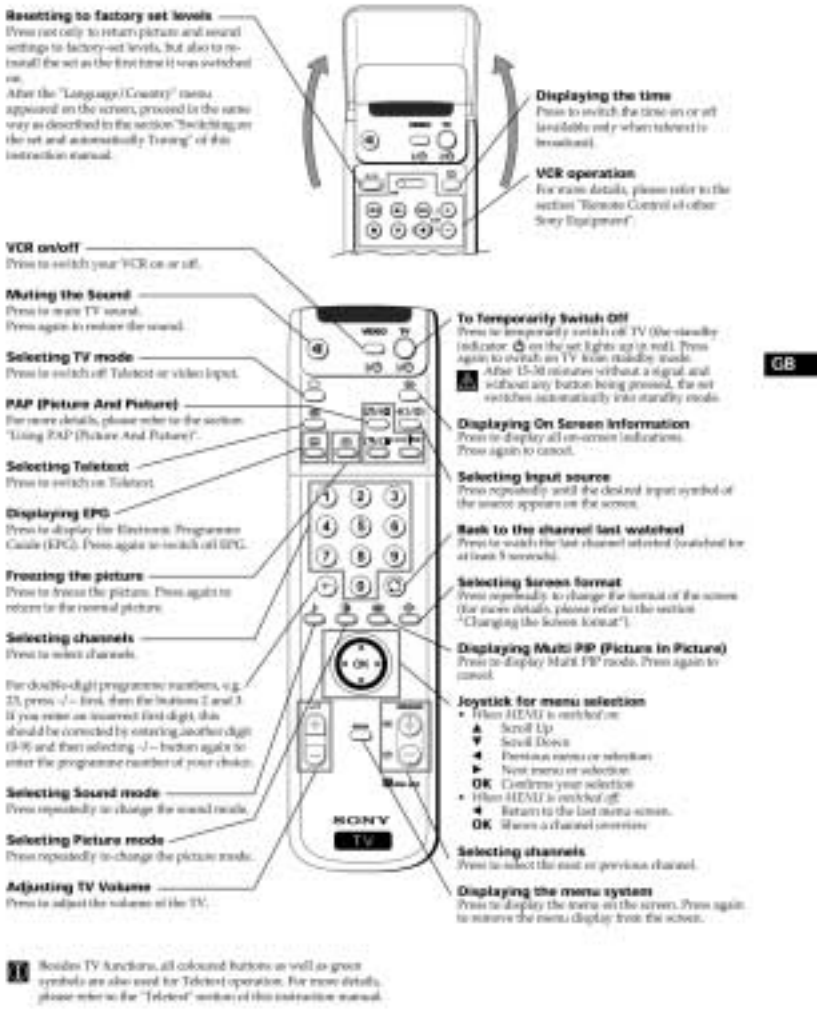
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual. (Part no : 4-078-836-11)

Checking the Accessories Supplied

Overview of TV Buttons


Lamp (see page 32)
On/Off Switch
Standby indicator:
• By pressing the switch on/off button of the Remote Control, standby indicator lights up in red colour.
• By pressing the main switch on the set, the standby indicator lights up in amber colour.
Press on the mark ✱ on the front of the set to reveal the front connectors.
Headphone jack
S Video Input jack
Video Input jack
Audio Input jacks
Selecting input source
Volume control buttons
Programme up or down buttons (selects TV channels)

Overview of Remote Control Buttons


Resetting to factory set levels
Press not only to return picture and sound settings to factory-set levels, but also to re-install the set as the first time it was switched on.
After the "Language/Country" menu appears on the screen, proceed in the same way as described in the section "Switching on the set and automatically Tuning" of this instruction manual.
Displaying the time
Press to switch the time on or off (available only when teletext is broadcast).
VCR operation
For more details, please refer to the section "Remote Control of other Sony Equipment".
VCR on/off
Press to switch your VCR on or off.
Muting the Sound
Press to mute TV sound.
Press again to restore the sound.
Selecting TV mode
Press to switch off Teletext or video input.
PAP (Picture And Picture)
For more details, please refer to the section "Using PAP (Picture And Picture)".
Selecting Teletext
Press to switch on Teletext.
Displaying EPG
Press to display the Electronic Programme Guide (EPG). Press again to switch off EPG.
Freezing the picture
Press to freeze the picture. Press again to return to the normal picture.
Selecting channels
Press to select channels.
For double-digit programme numbers, e.g. 23, press -/-- first, then the buttons 2 and 3. If you enter an incorrect first digit, this should be corrected by entering another digit (0-9) and then selecting -/-- button again to enter the programme number of your choice.
Selecting Sound mode
Press repeatedly to change the sound mode.
Selecting Picture mode
Press repeatedly to change the picture mode.
Adjusting TV Volume
Press to adjust the volume of the TV.
To Temporarily Switch Off
Press to temporarily switch off TV (the standby indicator ⏻ on the set lights up in red). Press again to switch on TV from standby mode.
After 15-30 minutes without a signal and without any button being pressed, the set switches automatically into standby mode.
Displaying On Screen Information
Press to display all on-screen indications. Press again to cancel.
Selecting input source
Press repeatedly until the desired input symbol of the source appears on the screen.
Back to the channel last watched
Press to watch the last channel selected (watched for at least 5 seconds).
Selecting Screen format
Press repeatedly to change the format of the screen (for more details, please refer to the section "Changing the Screen Format").
Displaying Multi PIP (Picture in Picture)
Press to display Multi PIP mode. Press again to cancel.
Joystick for menu selection
• When HDMI is switched on
▲ Scroll Up
▼ Scroll Down
◄ Previous menu or selection
► Next menu or selection
OK Confirms your selection
• When HDMI is switched off
◄ Return to the last menu screen.
OK Shows a channel overview
Selecting channels
Press to select the next or previous channel.
Displaying the menu system
Press to display the menu on the screen. Press again to remove the menu display from the screen.
SONY
TV

Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.

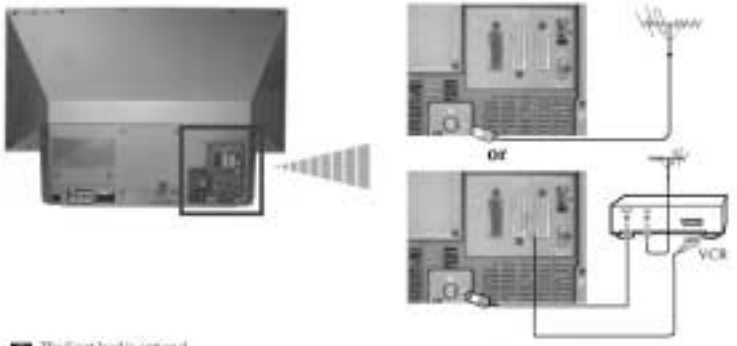
GB

Inserting Batteries into the Remote Control

Make sure you insert the batteries using the correct polarities.
Always remember to dispose of used batteries in an environmental friendly way.

Connecting the Aerial and VCR

Connecting cables are not supplied.



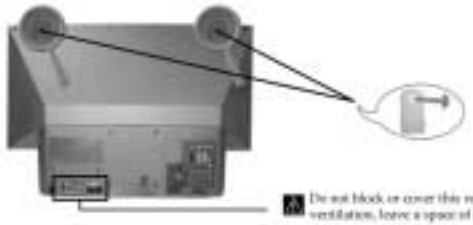
The Scart lead is optional.
If you use this optional connection it can improve picture and sound quality when using a VCR.

If you do not use a SCART lead, after automatically tuning the LCD projection TV refer to the "Manually Tuning the TV" section of this instruction manual, to tune in the set to the output of your VCR. Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

Stabilizing the set

After setting up, secure the set to a wall, etc., with the supplied brackets, for safety purposes.

1 Mount the two supplied brackets with the screws to the upper rear side of the set.



Do not block or cover this ventilation opening. For ventilation, leave a space of at least 30 cm from the wall.

2 Pass a strong cord or a chain through each bracket mounted in 1, and then secure to a wall or a pillar, etc.

Switching on the set and Automatically Tuning

The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the set, 3) search and stores all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen. However, if you need to change the language menu, change the country, change or repeat the tuning (e.g. when you move house) or rearrange again the order of the channels afterwards, you can do that by selecting the appropriate menu in the (Set Up).

1 Connect the set plug to the mains socket (220-240V AC, 50 Hz). Press the ⏻ on / off button on your set to switch on. The first time you press this button the **Language**/**Country** menu displays automatically on the screen.

2 Push the joystick on the remote control to ▼ or ▲ to select the language, then press **OK** to confirm your selection. From now on all the menus will appear in the selected language.

3 Push the joystick to ▼ or ▲ to select the country in which you will operate the set, then press **OK** to confirm your selection.

Select "Off" instead of a country if you do not want your channels (TV Broadcasts) stored in a given channel sequence starting from programme position 1.

GB

4 The Auto Tuning menu appears on the screen in the selected language, then press the **OK** button on the remote control to select **Yes**.

5 A new menu appears automatically on the screen asking you to check that the aerial is connected. Confirm that the aerial is connected and then press the **OK** button to start the automatic tuning.

- The TV starts to automatically search and store all available channels (TV Broadcast) for you.
- If you have selected "Off" option in the Country menu and you make a new automating afterwards, the TV Broadcasts will be stored from the selected programme number.

This procedure could take some minutes. Please, be patient and do not press any button. Otherwise the automatic tuning will not be completed.

continued...

6 After all available channels are captured and stored, the Programme Sorting menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

a) If you do not wish to change the channel order, go to step 7.

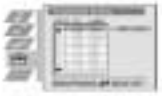
b) If you wish to change the channel order:

1 Push the joystick on the remote control to ▼ or ▲ to select the programme number with the channel (TV Broadcast) you wish to rearrange, then push to ►.

2 Push the joystick to ▼ or ▲ to select the new programme number position for your selected channel (TV Broadcast), then press **OK**.

The selected channel now moves to its new programme position and the other channels move accordingly.

3 Repeat steps b1) and b2) if you wish to change the order of the other channels.



7 Press the **MENU** button to exit and return to the normal TV screen.

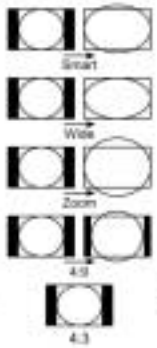
The set is now ready for use.

Changing the Screen Format

This feature allows you to change the size of the TV picture.

1 Press the ▭ button on the remote control repeatedly to select one of the following formats.

Smart:	imitation of wide screen effect for 4:3 broadcast.
4:3:	conventional 4:3 picture size, full picture information.
14:9:	compromise between 4:3 and 16:9 picture size.
Zoom:	widescreen format for letterbox movies.
Wide:	for 16:9 broadcast.



In **Smart**, **Zoom** and **14:9 modes** parts of the top and bottom of the screen are cut off. Press ▼ or ▲ to adjust the position of the image on screen (eg to read subtitles).

2 Press the **OK** button to confirm your selection.

GB

Introducing the Menu system

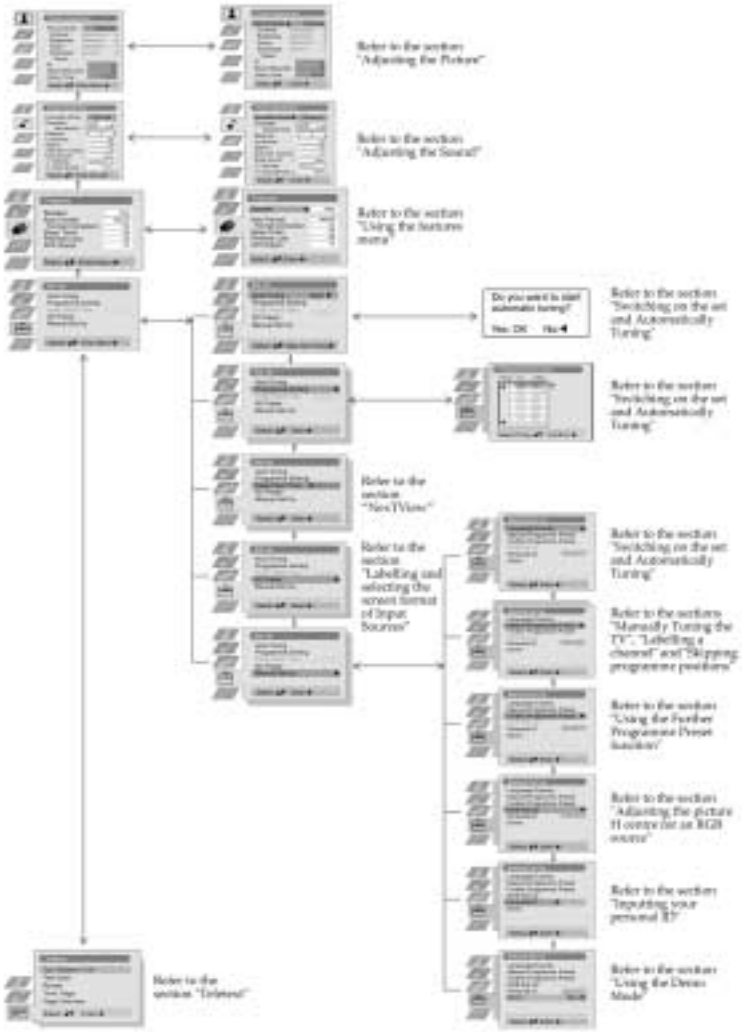
Your set uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

1 Press the **MENU** button to switch the first level menu on.

2 • To highlight the desired menu or option, push the joystick to ▲ or ▼.
• To enter to the selected menu or option, push to ►.
• To return to the last menu or option, push to ◄.
• To alter settings of your selected option, push to ▼/▲/◄ or ►.
• To confirm and store your selection, press **OK**.

3 Press the **MENU** button to remove the menu from the screen.

On Screen display Menus Guide


Refer to the section "Adjusting the Picture"
Refer to the section "Adjusting the Sound"
Refer to the section "Using the features menu"
Refer to the section "Switching on the set and Automatically Tuning"
Refer to the section "Switching on the set and Automatically Tuning"
Refer to the section "NexTView"
Refer to the section "Labelling and selecting the screen format of Input Sources"
Refer to the section "Switching on the set and Automatically Tuning"
Refer to the section "Manually Tuning the TV", "Labelling a channel" and "Skipping programme positions"
Refer to the section "Using the Further Programme Preset functions"
Refer to the section "Adjusting the picture H centre for an RGB source"
Refer to the section "Inputting your personal ID"
Refer to the section "Using the Demo Mode"
Refer to the section "Teletext"

Adjusting the Picture

Although the picture is adjusted at the factory, you can readily it to suit your own taste.

1 Press the MENU button on the remote control to display the menu on the screen.

2 Push the joystick to ▶ to enter the **Picture Adjustment** menu.

3 Push the joystick to ▼ or ▲ to select the item you wish to change, then push to ▶.
Refer to the table below to chose the item and for the effect of each control.

Picture Mode	▼ **Live** (for live broadcast programmes) **Personal** (for individual settings) **Movie** (for films) ▲ **Game** (for computer games)
Contrast	◀ Less ▶ More
Brightness*	◀ Darker ▶ Brighter
Colour*	◀ Less ▶ More
Sharpness*	◀ Softer ▶ Sharper
Hue**	◀ Reddish ▶ Greenish
Reset	Resets picture to the factory preset levels.
AI (Artificial Intelligence)	▲ **Off**: Normal ▼ **On**: Automatic optimization of contrast level according to the TV signal
Noise Reduction	▼ **High**: High noise reduction. **Mid**: Medium noise reduction. **Low**: Low noise reduction. **Auto**: Optimum noise reduction automatically selected. ▲ **Off**: No noise reduction.
Colour Tone	▼ **Warm**: Gives a warm tint to the picture. **Normal**: Normal. ▲ **Cool**: Gives a cool tint to the picture.

* Can only be altered if Personal Picture Mode is selected.
** Only available for NTSC colour signal (e.g. USA video tapes).

GB

4 Push the joystick to ▲, ▼, ◀ or ▶ to alter the selected item, then press the **OK** button to store the new adjustment.

5 Repeat steps 3 and 4 to alter the other items.

6 Press the MENU button to exit and return to the normal TV screen.

Changing the Picture Mode Quickly

You can quickly change the Picture Mode without entering the Picture Control menu screen.

1 Press the ◑ button on the remote control repeatedly to directly access and select your desired picture mode (**Live**, **Personal**, **Movie**, or **Game**).

2 Press the **OK** button to remove the display from the screen.

Adjusting the Sound

Although the sound is adjusted at the factory, you can modify it to suit your own taste.

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the ♪ symbol, then push to ► to enter to the **Audio Adjustment** menu.

3 Push the joystick to ▼ or ▲ to select the item you wish to change, then push to ►.
Refer to the table below to choose the item and for the effect of each control.

Equaliser Mode	▼ **Personal** (for individual settings) **Vocal** **Jazz** **Rock** **Pop** ▲ **Flat** (fixed setting, cannot be adjusted)
***Equaliser Adjustment**	Push to ► or ◄ to select the frequency band you want to alter and push to ▼ or ▲ to adjust. Finally, press the **OK** button to store the new adjustment.
Balance	◄ Left ► Right
Loudness	▼ **Off:** normal ▲ **On:** for music broadcasts
Space	▼ **Off:** normal ▲ **On:** sensaround sound effect
Auto Vol. Control	▼ **Off:** volume level changes according to the broadcast signal ▲ **On:** volume level of the channels will stay the same, independent of the broadcast signal (e.g. on case of advertisement)
Dual Sound	- For a stereo broadcast: ▼ **Mono** ▲ **Stereo** - For a bilingual broadcast: ▼ **Mono** (For mono channel if available) **A** (For channel 1) ▲ **B** (For channel 2)
Headphones **Volume**	◄ Less ► More
Dual Sound	- For a stereo broadcast: ▼ **Mono** ▲ **Stereo** - For a bilingual broadcast: ▼ **Mono** (For mono channel if available) **A** (For channel 1) **B** (For channel 2) ▲ **PAP** (only when PAP is switched on)

* Can only be permanently stored if Personal Equaliser Mode is selected, the other modes (Vocal, Jazz, Rock or Pop) store until the next mode change.

continued...

4 Push the joystick to ▼, ▲, ◄ or ► to alter the selected item, then press the **OK** button to store the new adjustment.

5 Repeat steps 3 and 4 to alter the other items.

6 Press the **MENU** button to exit and return to the normal TV screen.

Changing Sound Mode Quickly

You can quickly change Sound mode without entering the Sound Control menu screen.

1 Press the ♪ button on the remote control repeatedly to directly access and select your desired sound mode (**Personal**, **Vocal**, **Jazz**, **Rock**, **Pop** or **Flat**).

2 Press the **OK** button to remove the display from the screen.

GB

Using the Features Menu

Using the Features menu you can:
a) Adjust automatically the size of picture.
b) Select if you want to listen to the sound from the set directly or through an external amplifier.
c) Select a time period after which the set switches itself into standby mode.
d) Lock the buttons on the set. In this way, the set only works by using the remote control buttons.
e) Select the source to be output from the Scart connector (⇨2) –**EU** (SMARTLINK). In this way you can record from this scart connector while watching another source. If your VCR supports Smartlink, this procedure is not necessary.

1 Press the **MENU** button on the remote control to display the menu on the screen.

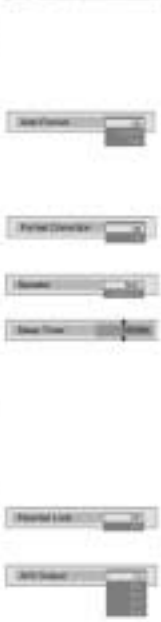
2 Push the joystick to ▼ to select the 🔧 symbol, then push to ▶ to enter to the **Features** menu.

3 Push the joystick to ▼ or ▲ to select the desired menu item, then push to ▶ (see the table below for the effect of each menu item).

4 Push to ▼ or ▲ to select the desired setting and press the **OK** button to store.

5 Press the **MENU** button to exit and return to the normal TV screen.

Feature	Effect / Operation
Auto Format (only for aerial signal)	▼ **Off:** Size of picture is not automatically adjusted. **Normal:** Size of picture is automatically adjusted according to the broadcaster information. ▲ **Full:** The set automatically adjusts the picture size to eliminate any dark areas on the TV picture (as shown on the section "Changing the Screen Format)".
Format Correction (only if Auto Format is set to "Normal" or "Full")	▼ **Off:** 4:3/14:9 is selected. ▲ **On:** Smart mode is selected automatically for 4:3/14:9 broadcast.
Speaker	▼ **Main** (sound from the set) ▲ **Centre In** (sound from external amplifier)
Sleep Timer	▲ **Off** **10 min.** **20 min.** ▼ **30 min.**
Parental lock	▼ **Off** (Normal mode) ▲ **On** (The set can only be switched on using the remote control, the buttons on the TV do not work)
AV2 Output	▼ **TV** (audio/video signal from the aerial) **AV1** (audio/video signal from the Scart connector (⇨1) –(2)). **AV2** (audio/video signal from the Scart connector ⇨2–**EU** (SMARTLINK). **AV3** (audio/video signal from the Scart connector ⇨3–**EU**). ▲ **AV4** (audio/video signal from the connector ◁ 4 placed in the front of the set).



- One minute before the set switches into standby mode, the time remaining is displayed on the screen automatically.
- When watching the TV, press the ⏲ button on the remote control to display the time remaining.
- To return to normal operation from standby mode, press the TV (⏻) button on the remote control.

If you have connected a decoder, please remember to change back the AV2 Output to "TV" for correct unscrambling.

Manually Tuning the TV

Use this function to preset channels (TV Broadcast) or a video input source one by one to the programme order of your choice.

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the ⚙ symbol, then push to ▶ to enter the **Set Up** menu.

3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.

4 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ▶.

5 Push the joystick to ▼ or ▲ to select on which programme number you want to preset a channel (for VCR select programme number "0"), then push twice to ▶. The column **SYS** is highlighted.

6 Push the joystick to ▼ or ▲ to select the system for TV Broadcast and VCR channel (**B/G** for western european countries, **L** for France, **I** for Great Britain or **D/K** for eastern european countries) or a external input source (**EXT**), then push to ▶. The column **CH** is highlighted.

7 Push the joystick to ▼ or ▲ to select the channel tuning, "**C**" for terrestrial channels (for TV Broadcast or VCR channel), "**S**" for cable channels or **F** for, direct frequency input, then push to ▶.

8 a) If you know the channel number of the TV Broadcast, the VCR test signal channel or the frequency, press the number buttons to enter directly the channel number. Then press the **OK** button to store.
b) If you do not know the channel number, push the joystick to ▼ to select **SEARCH** and the set starts automatically to search for the next available TV Broadcast channel or the channel of the VCR signal. Then press the **OK** button to store or press ▼ to continue searching the desired channel.
c) For external input sources (EXT), push to ▼ to select the input source where you have connected your equipment (AV1, AV2, AV3 or AV4). Then press the **OK** button to store.

9 Repeat steps 4 to 8 a), b) or c) if you wish to store more channels.

10 Press the **MENU** button to exit and return to the normal TV screen.

The set is now ready for use.

Labelling a channel

Names for channels (TV Broadcasts) are usually taken automatically from Teletext if available. You can however name a channel or an input video source (any up to five characters (letters or numbers)). Using this function, you can easily identify which channel (TV Broadcasts) or video source you are watching.

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the (Set Up) symbol, then push to ▶ to enter the **Set Up** menu.

3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.

4 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ▶.

5 Push the joystick to ▼ or ▲ to select the programme number with the channel you wish to name.

6 Push the joystick to ▶ repeatedly until the first element of the **LABEL** column is highlighted.

7 Push the joystick to ▼ or ▲ to select a letter, number, '+' or a blank, then push to ▶ to confirm this character. Select the other four characters in the same way.

8 After selecting all the characters, press the **OK** button.

9 Repeat steps 5 to 8 if you wish to label other channels.

10 Press the **MENU** button to exit and return to the normal TV screen.

When you select a named channel, the name appears for a few seconds on the screen.

Skipping Programme positions

You can programme this set to skip any unwanted programme numbers when they are selected with the PROG# +/- buttons. To cancel this function afterwards, proceed in the same way as described below by selecting Off (instead of On in step 6.

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the (Set Up) symbol, then push to ▶ to enter the **Set Up** menu.

3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.

4 Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ▶.

5 Push the joystick to ▼ or ▲ to select the programme position you want to skip, then push to ▶ to enter the **SKIP** column.

6 Push the joystick to ▼ to select **On**, then press the **OK** button to store.

7 Repeat steps 5 and 6 to skip other unused programme positions.

8 Press the **MENU** button to exit and return to the normal TV screen.

When changing channels (TV Broadcasts) with the PROG# +/- buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.

GB

Using the "Further Programme Preset" function

With this feature you can:
a) Individually attenuate the strength of a channel signal in case of a strong local aerial signal (striped picture).
b) Individually adjust the volume level of each channel.
c) Even normally the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV to obtain a better picture reception if the picture is distorted.
d) Preset the AV output for the programme positions of channels with scrambled signals (eg. from a pay TV decoder). In this way a connected VCR records the unscrambled signal.

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the (tools) symbol, then push to ► to enter the **Set Up** menu.

3 Push the joystick to ▼ or ▲ to select **Manual Set Up** then push to ► to enter.

4 Push the joystick to ▼ or ▲ to select **Further Programme Preset**, then push to ►.

5 Push the joystick to ▼ or ▲ to select the relevant programme number, then push to ► repeatedly to select:

a) **ATT** (RF attenuator)

b) **VOL** (Volume Offset)

c) **AFT** (Automatic Fine Tuning) or

d) **DECODER**

The selected item changes colour.

6 a) **ATT**
Push the joystick to ▼ to select **On**, then press the **OK** button.
Repeat steps 5 and 6 a) to attenuate other channels.

b) **VOL**
Push the joystick to ▼ or ▲ to adjust the volume level of the channel over a range of -7 to +7, then press the **OK** button. Repeat steps 5 and 6b) to adjust the volume level of the other channels.

c) **AFT**
Push the joystick to ▼ or ▲ to fine tune the channel frequency over a range of -15 to +15, then press the **OK** button. Repeat steps 5 and 6c) if you wish to fine tune other channels.

d) **DECODER**
Push the joystick to ▼ or ▲ to select **AV1** (for a decoder connected to the Scart ⊡-1/-◁) or **AV2** (for a decoder connected to the Scart ⊡-2/-◁ 2 (SMARTLINK)), then press the **OK** button.
Repeat steps 5 and 6d) to select the AV1 or AV2 output for other programme positions.

The picture from the decoder connected to the Scart connector ⊡-1/ -◁ or ⊡-2/-◁ 2 (SMARTLINK) on the back of the set will appear on this programme number.

7 Press the **MENU** button to exit and return to the normal TV screen.

The set is now ready for use.

Inputting Your Personal ID

You can programme this set with a personal code, using up to eleven characters (letters and numbers). Then using this feature it will be possible to identify your set if it was ever stolen.

This code can only be input once!
Make sure to write it down in this instruction manual.

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the (tools) symbol, then push to ► to enter the **Set Up** menu.

3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ►.

4 Push to ▼ or ▲ to select **Personal ID**, then push to ►.

5 Push the joystick to ▼ or ▲ to select a letter, number, - or a blank; then push to ► to confirm this character. Select the other ten characters in the same way.

6 After selecting all the characters, press the **OK** button. A new menu appears automatically on the screen asking you to be sure that you want to save this ID.

7 a) If you do not wish to store this ID, push the joystick to ◄ and repeat steps 4 to 6 to enter a new ID.

b) If you wish to store this ID, press the **OK** button.

Remember that this code can only be input once.

8 Press the **MENU** button to return to the normal TV screen.

When you enter the Manual Set Up menu, in the "Personal ID" option the code you entered above will be displayed. You will not be able to select and change this option.

GB

Using the Demo Mode

This function provides an overview of some of the features available on this set.

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the symbol, then push to ▶ to enter the **Set Up** menu.

3 Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ▶.

4 Push to ▼ or ▲ to select **Demo**, then push to ▶ to enter and start the demonstration.

The set starts the demonstration and shows most of the available picture functions.

Note:
Press the button on the remote control to stop the Demo mode and return to the normal TV screen.

Adjusting the H Centre picture for an RGB source

When connecting an RGB source, such as a DVD player, to the Scart connector (1 /) you may need to readjust the H Centre of the picture.

1 Press the button repeatedly on the remote control until the symbol appears on the screen.

2 Push the **MENU** button to display the menu on the screen.

3 Push the joystick to ▼ to select the symbol, then push to ▶ to enter the **Set Up** menu.

4 Push to ▼ or ▲ to select **Manual Set Up** then push to ▶ to enter.

5 Push the joystick to ▼ or ▲ to select **RGB Set Up** then push to ▶.

6 Push the joystick to ▶ to enter **H Centre**, then push to ▼ or ▲ to adjust the centre of the picture over a range of -10 to +10. Press the **OK** button to store.

7 Press the **MENU** button to exit and return to the normal TV screen.

GB

Labelling and Selecting the screen format of Input Sources

This function enables you to select the size of the picture coming from the input source as well as designate a name to the optional equipment you have connected to the sockets of this set. This name can contain up to 5 characters (letters or numbers).

1 Press the **MENU** button on the remote control to display the menu on the screen.

2 Push the joystick to ▼ to select the symbol, then push to ► to enter the **Set Up** menu.

3 Push the joystick to ▼ or ▲ to select **AV Preset**, then push to ►.

4 Push the joystick to ▼ or ▲ to select the input source. Then push to ►.

5 Push the joystick to ▼ or ▲ to select:

- ▼ **Off** (size of picture is not automatically adjusted).
- **Normal** (size of picture is automatically adjusted according to the broadcaster information).
- ▲ **Full** (The set automatically adjusts the picture size to eliminate any dark areas on the TV picture (as shown on the section "Changing the Screen Format").

Next push to ►.

6 With the first element of the **LABEL** column highlighted, push the joystick to ▼ or ▲ to select a letter, number, "-" or blank; then push to ► to confirm this character. Select the other four characters in the same way.

7 After selecting all the characters, press the **OK** button.

8 Repeat steps 4 to 7 if you wish to select the picture size or label other input sources.

9 Press the **MENU** button to exit and return to the normal TV screen.

Whenever the equipment with the labled input is selected for use, the name appears for a few seconds on the screen.

Using Multi PIP (Picture In Picture)

Multi PIP (Picture in Picture) mode displays a succession of 12 still pictures and a 13th that is live. You can manually select which channel you wish to watch, either full-screen or in the PIP.

1 Press the button on the remote control to select the PIP mode. Now 13 programme positions appear on the screen, with the current channel in the centre.

2 Push the joystick to ▼, ▲, ◄ or ► to move within the 13 displayed channels.

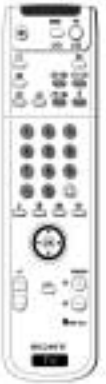
3 Press the **OK** button to select the desired channel. The selected channel moves to the centre.

4 Press to return to the normal TV mode.

GB

Using PAP (Picture And Picture)

PAP divides the screen into two for watching two channels simultaneously. One of the pictures can be selected to come from a video source.
The sound of the left screen comes through the set loudspeakers, the sound of the right screen is selectable via headphones.



Switching PAP on and off

Press the button / on the remote control to display the two screens in format 4:3. Press / again to switch PAP off.

Selecting PAP source

1 To change the source of the left screen:
With PAP switched on, press the number buttons (to select a TV channel) or press (to select a video source).

2 To change the source of the right screen:
With PAP switched on, press the button on the remote control. When the symbol appears at the bottom of the right screen, press the number buttons (to select a TV channel) or press (to select a video source).

Swapping screens

With PAP switched on, press the / button on the remote control to swap the two screens.

Zooming the screens

With PAP switched on, push the joystick repeatedly to ◄ or ► to change the size of the two screens.

Selecting the sound of the right screen

You can select the sound of the right screen via headphones. With PAP switched on, refer to the "Adjusting the Sound" section of this instruction manual and set the option "Dual Sound" to "PAP".

Teletext

Most TV channels broadcast information via Teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service.

Please use a TV channel with a strong signal, otherwise there may be Teletext errors.

Switching Teletext on and off

1 Select the TV channel which carries the teletext service you want to view.
2 Press the ▣ button once for Picture and Teletext (P&T). The screen is divided in two, with the TV channel in the right corner and the Teletext display on the left.

P&T mode. Press ⏍/⧉ then press PROGR +/– to change the channel of the TV screen. Push the joystick to ◄ or ► to change the size of the TV screen, then press ⏍/⧉ again to resume normal teletext reception.

3 Press ▣ twice to get Teletext only.
4 Press ▣ three times for Mix mode.
5 Press ▣ a fourth time or press ▭ to switch off Teletext.

Selecting a Teletext page

Input three digits for the page number using the numbered buttons on the control. If you make a mistake, type in any three digits then re-enter the correct page number.

Using Other Teletext Functions

Selecting the next or preceding page

Press the ⊟ (PROG+) or ⊞ (PROGR-) buttons on the remote control to select the previous or next page.

Selecting a sub page

A teletext page may consist of several sub pages. In this case, after a few seconds, an information line is displayed showing the number of subpages.
Select the sub page by pressing ▲ or ▼.

To freeze a Teletext page

Press the ⊡ button to freeze the page. Press again to cancel the freeze.

Revealing the index page

Press the ⊞ button to reveal the index page (normally page 100).

Fastext

(only available if the TV station broadcasts Fastext signals)

When the colour coded menu appears at the bottom of a teletext page, press a coloured button on the remote control (red, green, yellow or blue) to access the corresponding page.

Using the feature "Page Catching"

1 Press the numbered buttons on the remote control to select a teletext page which has several page numbers on it (eg the index page).
2 Press the **OK** button.
3 Push the joystick to ▲ or ▼ to select the desired page number then press the **OK** button. The requested page is displayed after some seconds.

continued...

Using the Teletext menu

1 With Teletext switched on, press the **MENU** button on the remote control to display the teletext menu on the TV screen.
2 Push the joystick to ▲ or ▼ to select your chosen item, then push to ► to display the relevant sub menu.
3 To remove the teletext menu from the screen, press the **MENU** button.

Top / Bottom / Full

The Top/Bottom/Full sub menu allows you to enlarge different sections of the Teletext page. Push the joystick ▲ to enlarge the upper half of the screen, push to ▼ to enlarge the lower half. Press the **OK** button to restore the page to normal size.

Text Clear

After having selected this function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol ▣ changes colour. To view the page, press ▣.

Reveal

Some teletext pages contain hidden information (eg for a quiz), which you can reveal. The hidden information appears on screen.

Time Page

(depending on availability of teletext service)

You can call up a time-coded page such as an alarm page at a time specified by you. After you have displayed the Time Page sub menu:

1 Press the numbered buttons on the remote control to enter the three digits of the desired page.
2 Press the numbered buttons again to enter the four digits of the desired time.
3 Press the **OK** button to store the desired time. The time is displayed in the top left corner of the screen. At the requested time the page is displayed.

Page Overview

(depending on availability of teletext service)

In the Page Overview menu the block and group pages of TOP-Text are sorted into two columns, so that the customer can easily select this page. For each block page in the first column, the corresponding group pages are shown in the second column. Push the joystick ▲ or ▼ to select the desired block page, then push to ► to enter to the group pages column. Push to ▲ or ▼ to select the desired group page. Finally, press the **OK** button to display the page.

GB

NexTView *

* (depending on availability of service)

NexTView is an on-screen electronic programme guide (EPG), providing you with programme information for different broadcasters.

Selecting your NexTView provider

The set automatically selects the best NexTView provider for you. This provider is available about 30 minutes after the channel tuning. You can however change this selection of provider if you wish.

1 Press the **MENU** button on the remote control to display the menu on the screen.
2 Push the joystick to ▲ or ▼ to select the 🔧 symbol, then push to ▶ to enter the **Set Up** menu.
3 Push to ▲ or ▼ to highlight **Select NexTView** then push to ▶. A list is displayed containing all available NexTView providers.
4 Push to ▲ or ▼ to select the desired provider then press the **OK** button to store.
5 Press the **MENU** button to remove the menu from the screen.

Displaying NexTView

1 Press the ⊡ button repeatedly on the remote control to switch NexTView on and off.
* In some cases, you may also need to push the joystick to ◀ to display the Sony electronic programme guide.
2 Push the joystick to ▲, ▼, ◀ or ▶ button to move the cursor around the screen.
3 Press the **OK** button to confirm a selection.
a) If you press the **OK** button in the date, time or icon (banner) columns, you change the programme list according to the selection.
b) If you press the **OK** button in the programme list, you directly display the channel if the broadcast is currently running, or, you display the "Long Info" menu if the broadcast is running at some future time.

Using the "Individual Setting" menu

You can make a personal list of the types of programmes you wish to view on the programme guide.

1 Push the joystick ▲ or ▼ to select the ☆ icon then push to ▶ to display the "Individual Setting" menu.
2 Push the joystick ▲ or ▼ to select your chosen item on the screen then press the **OK** button to confirm your choice.
3 Repeat step 2 for all the items you wish to have in your list.
4 When you have finished the list, push to ▶ to select the ⮕ icon.
5 Press the **OK** button to return to the previous menu.
6 Push the joystick ▲ or ▼ to select the ☆ icon then press the **OK** button again to activate your "Individual Setting" filter.

continued...

Using the Long Info menu

With this menu screen, you can set timers or record selected programmes.

1 Push ▲ or ▼ to select a future programme in the programme list column.
2 Press the **OK** button to display the **Long Info** menu on the TV screen.

To set the timer

Push the joystick ▲ or ▼ to highlight the ⏲ icon then press the **OK** button repeatedly to "set the timer" or "cancel the timer". If you choose to set the timer, the programme is marked with a clock symbol and a message appears on the screen shortly before the programme is due to start asking whether you wish to still view this programme.

To view the timer table

Push the joystick ◀ or ▶ to highlight the 🗓 icon then press the **OK** button repeatedly to switch on / off the timer table. This table shows the programmes on which you have already set a timer. (You can set a timer on up to 5 programmes).

To record programmes

(only with SmartLink VCRs)

1 Connect your SmartLink VCR.
2 Push the joystick to ◀ or ▶ to select ⏺ then press the **OK** button to download the information to your VCR.
3 To set up the VCR:

VPS/PDC
Push the joystick ◀ or ▶ to select **VPS / PDC** then press the **OK** button repeatedly to select **On** or **Off**. With this setting on you have the guaranteed recording of the whole broadcast should there be a change in the TV programme. This only works if the selected channel broadcasts a VPS / PDC signal.

Speed
Push the joystick to ▼ to select **Speed** then press the **OK** button repeatedly to select between **SP** for standard play or **LP** for long play. With long play you can record twice as much on a videotape. The picture quality however may suffer.

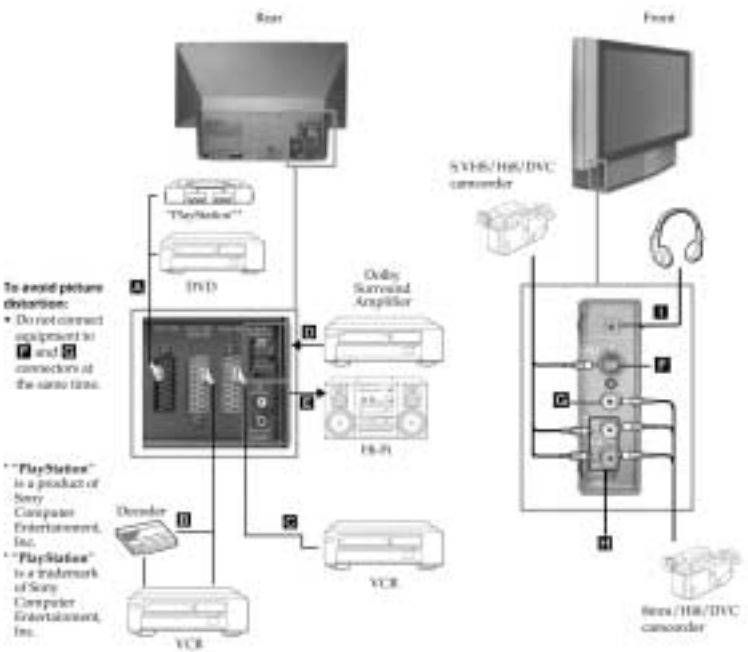
VCR Setup
Push the joystick to ▼ to select **VCR Setup** then press the **OK** button repeatedly to select which VCR you wish to programme, namely **VCR1** or **VCR2**.

4 Finally, push the joystick to ▶ to select the ⮕ icon then press the **OK** button to remove the menu from the TV screen.

GB

Connecting Optional Equipment

Using the following instructions, you can connect a wide range of optional equipment to this set.



Acceptable input signal	Available output signal
A Audio / video and RGB signal	Video / audio from TV tuner.
B Audio / video and S video signal	Video / audio from selected source.
C Audio / video and S video signal	Video / audio displayed on TV screen (monitor out).
D Centre speaker input Set "Speaker" on the Features menu to "Centre in".	No outputs.
E No inputs	Audio signal.
F S Video signal	No output.
G Video signal	No output.
H Audio signal	No output.
I No input	Audio signal to headphones.

Using Optional Equipment

Additional Information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the B or C socket using a scart lead. If you do not have a scart lead, use the "Manually Tuning the TV" section of this instruction manual to tune in the channel of the VCR test signal to TV programme number "0". Also refer to your VCR instruction manual to get the VCR test signal.
If your video supports Smartlink please refer to the "Smartlink" section of this instruction manual.

Connecting to External Audio Equipment

1 To listen to the audio of the set on the Hi-Fi equipment:

Plug in your Hi-Fi equipment to the I sockets on the rear of the set if you wish to amplify the audio output from the TV.
The output level from I sockets can be varied by adjusting the volume of the headphones. Refer to the "Adjusting the sound" section of this instruction manual to adjust the volume of the headphones.

2 To listen to the Dolby Prologic system sound on the set speakers:

Plug in your Dolby Prologic system decoder amplifier to the D socket on the rear of the set if you wish to listen to the audio output from your equipment on the TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the D socket to use the set as a centre speaker. Refer to the "Using the Features menu" section of this instruction manual and set the option "Speaker" to "Centre in".
Remember that the maximum input level of this input is 30 W. Be careful never to over this limit.

For mono equipment

Connect the phone plug to the L/G/(1 socket on the front of the TV and select the 4 input signal using the instructions on this page below.

Select and View the Input Signal

In order to get the input signal of a connected equipment onto the TV screen, you need to select the symbol of the connector to which you have connected the device.
e. g. : Your VCR is connected to the connector with the symbol (1-1/-1. Press the button on the remote control repeatedly until you see the symbol 1 on the screen.

1 Connect your equipment to the designated socket, as it is indicated on the previous page.

2 Press the button repeatedly on your remote control until the correct input symbol appears on the screen.

Symbol	Input signals
1	• Audio / video input signal through the Scart connector A or * RGB through Scart connector A.
2	• Audio / Video input signal through the Scart connector B or * S Video through Scart connector B.
3	• Audio / Video input signal through the Scart connector C or * S Video through Scart connector C.
4	• S Video input signal through the 4-pin DIN connector F or * video input signal through phono jack G and audio input signal through phono jacks H.

* (automatic detection of the signal according to the connected equipment)

3 Switch on the connected equipment.

4 To return to the normal TV picture, press the button on the remote control.

GB

Smartlink

Smartlink is a direct link between the set and a VCR.

For Smartlink you need:

- A VCR which supports Smartlink, NextView Link, Easy Link or Megalogic.

  Megalogic is a trademark of Grundig Corporation.
  EasyLink is a trademark of Philips Corporation.

- A fully-wired 21 pin SCART cable to connect your VCR to the Scart connector (21) ⇔ (SMARTLINK) on the rear of the set.

The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the set to the VCR.
- Direct recording: While watching TV you need to press just one button on the VCR to record this programme.
- Automatically switching on: With the set in standby mode, pressing the "Play ►" button on your VCR automatically switches the TV on.

If you have connected a decoder to a VCR which supports Smartlink feature, select the menu Further Programme Preset in the (E) (Manual Set Up) menu and select **DECODER AV1** to each coded channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

For more information on Smartlink, please refer to the Instruction Manual of your VCR.

Remote Control of other Sony Equipment

Using the buttons underneath the cover of the remote control you can control other Sony equipment.

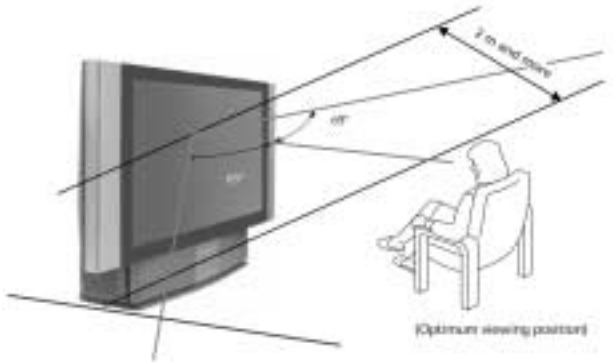
1. Open the cover of the Remote Control.
2. Set the selector VTR 1234 DVD according to the equipment you want to control:
   VTR 1 Beta VCR
   VTR 2 8 mm VCR
   VTR 3 VHS VCR
   VTR 4 Digital Video (DCR-VX 1000/9000 E, VHR-1000)
   DVD Digital Video Disk
3. Use the buttons underneath the cover on the remote control to operate the equipment.

- If your equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on this set Remote Control.
- If the equipment does not have a certain function, the corresponding button on the remote control will not work.

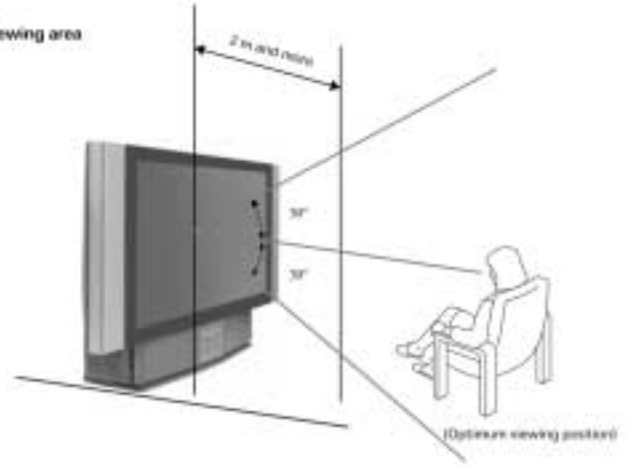
Optimum Viewing Area

For the best picture quality, try to position the set so that you can view the screen from within the areas shown below.

Horizontal viewing area



Vertical viewing area



Replacing the Lamp

When the lamp becomes dark or the picture colour is not normal or the lamp indicator (△) on the set flashes, replace with a new lamp.

- Use the lamp XL-2000E for replacement. If you use another lamp, it may cause damage to the set.
- Do not remove the lamp except when replacing it.
- Before replacing the lamp, turn off the power and disconnect the power cord.
- Replace the lamp after it becomes cool. The front glass of the lamp remains 308 °C (212 °F) and more even 30 minutes after the power is turned off.
- Do not place the removed lamp in proximity to children or flammable material.
- Do not get the removed lamp wet, or insert objects inside the lamp. It may cause the lamp to explode.
- Do not place near metal or easily flammable objects, as this may cause fire. Also, do not put your hand inside the lamp compartment, as you may be burned.
- Attach the new lamp firmly. If it is not firmly attached, the picture may become dark.

1 Turn off the power and disconnect the power cord.

- If you start changing the lamp without disconnecting the power cord, the standby indicator ⏻ on the set flashes. To continue changing the lamp, disconnect the power cord.
- Replace the lamp 30 minutes or more after the power is turned off.

Prepare the new lamp.

2 Remove the front panel.

Remove the front panel without moving the set.

Grasping the right side of the front panel with your fingers, pull it forward. Be careful not to catch your fingernails.

3 Loosen the screw with the object such as a coin and remove the lamp cover.

4 Loosen two screws and pull out the lamp.

Loosen two screws with the supplied wrench.

The lamp is still too hot just after the power is turned off. Be careful that you don't touch the front glass or surrounding area of the lamp or the glass of the lamp compartment.

Pull out the lamp by the handle.

5 Attach the new lamp.

Replace the new lamp securely in the lamp receptacle and fasten the screws tightly.

6 Attach the lamp cover.

Fasten the screw tightly with the object such as a coin.

7 Attach the front panel.

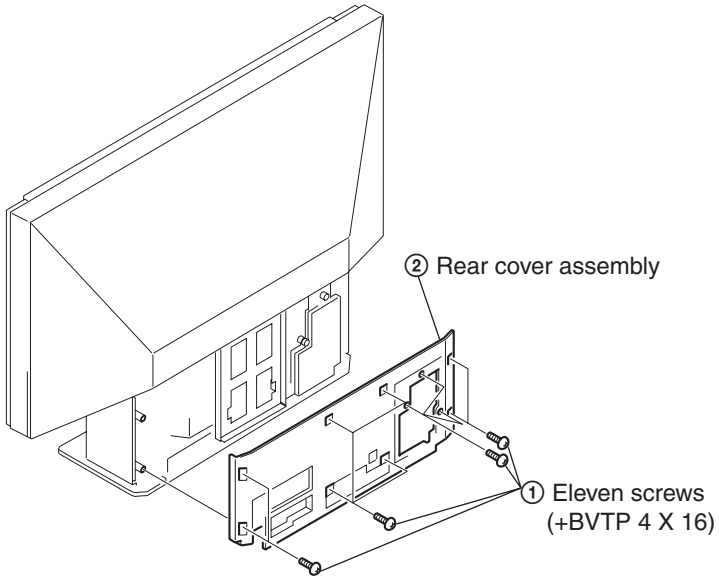
Attach the front panel as it was.

Notes

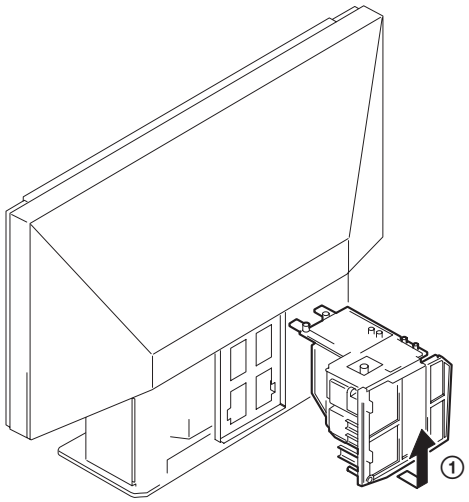
- *Do not touch or stain the front glass of the new lamp or the glass of the lamp compartment. If the glass becomes dirty, the picture quality may deteriorate or the lamp life may shorten.*
- *Attach the lamp cover firmly. If it is not firmly attached, the power will not turn on.*
- *When the lamp burns out, a noise is audible. This does not represent a damage.*
- *Consult your nearest Sony service center to obtain a new lamp.*
- *Always remember to dispose of used lamps in an environmental friendly way.*

SECTION 2
DISASSEMBLY

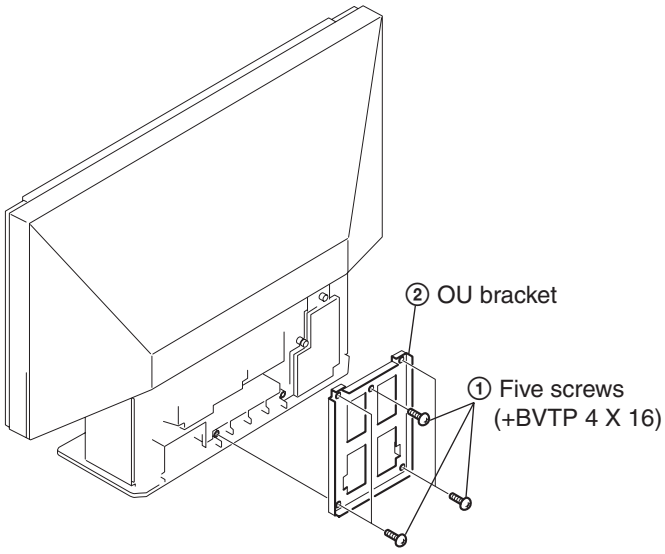
2-1. REAR COVER ASSEMBLY



2-2. SERVICE POSITION

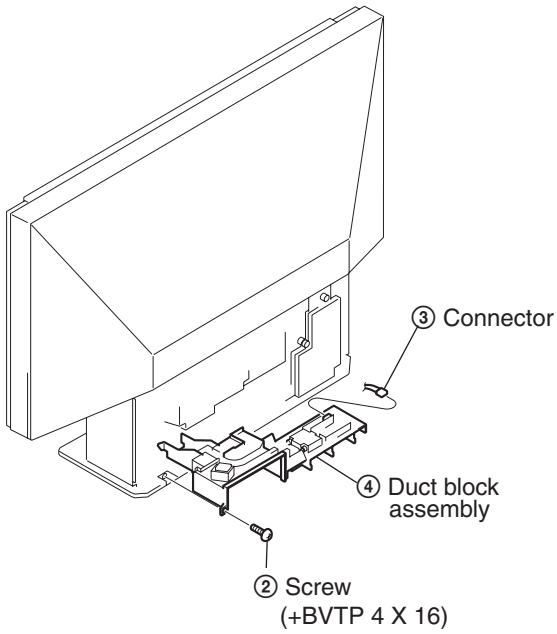


2-3. OU BRACKET REMOVAL

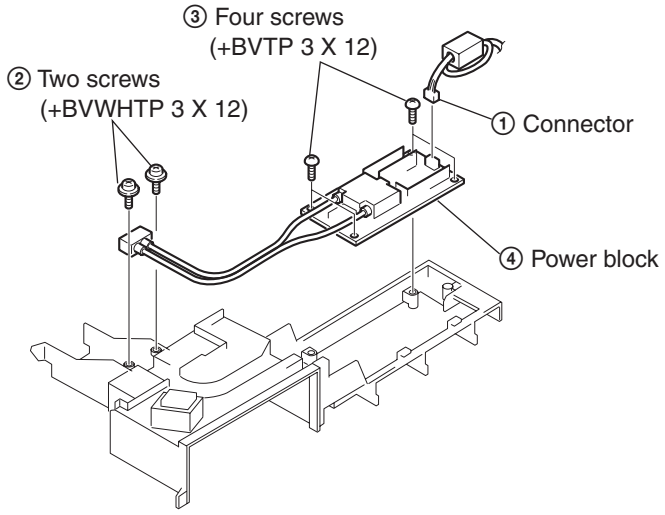


2-4. DUCT BLOCK ASSEMBLY

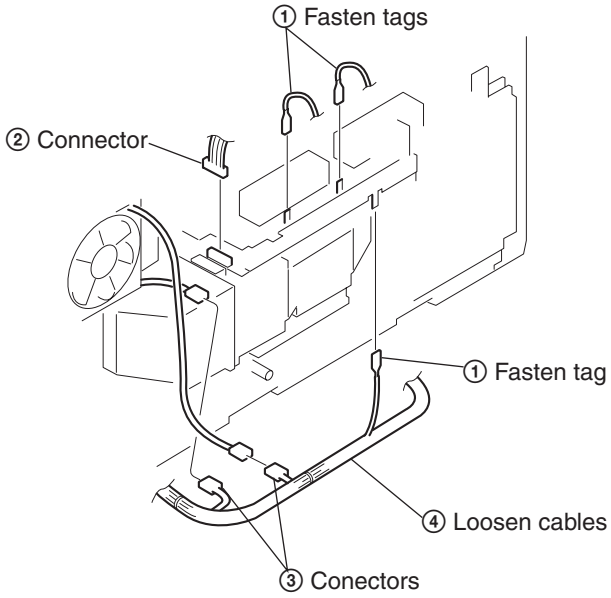
① Remove the lamp



2-5. POWER BLOCK

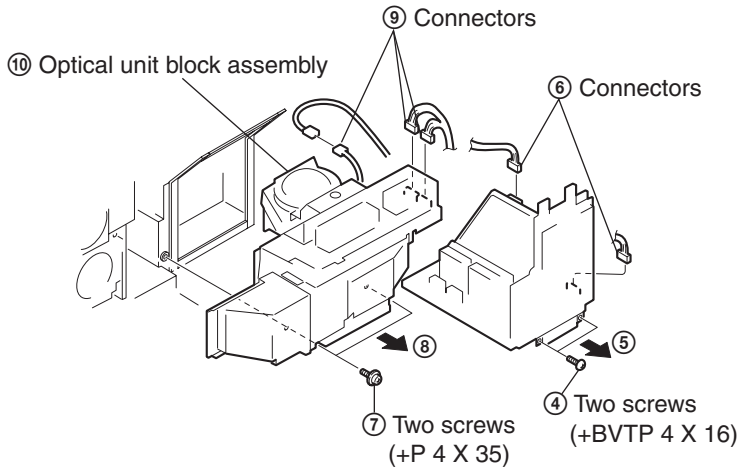


2-6. OPTICAL UNIT BLOCK ASSEMBLY

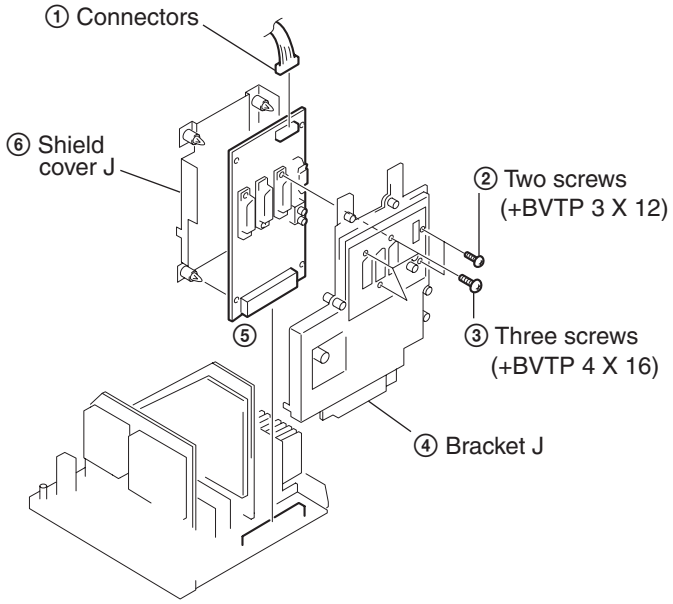


Note: Be careful about the no dust or dirt are on the surface contacts the optical unit block assembly.

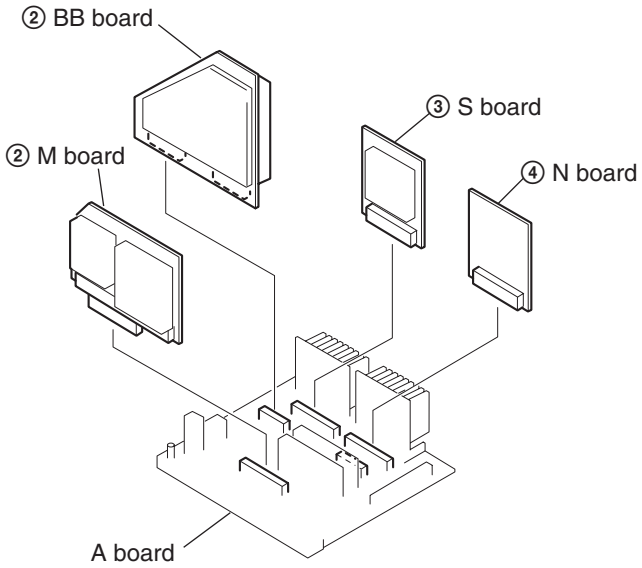
- Clean the periphery of the set.
- Clean the periphery of the optical unit block assembly in the set (the inside of the control panel, the surface contacts between the optical unit block assembly and the bottom cabinet and periphery).



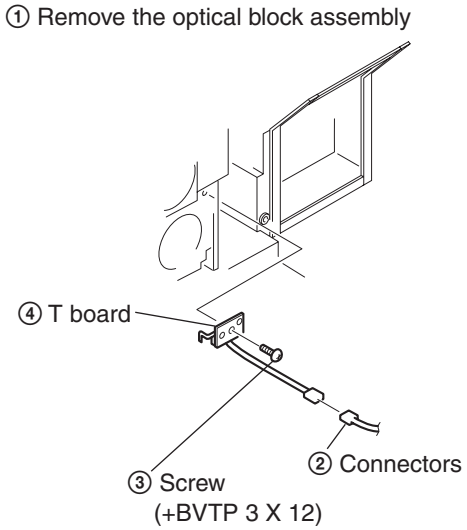
2-7. J BOARD REMOVAL



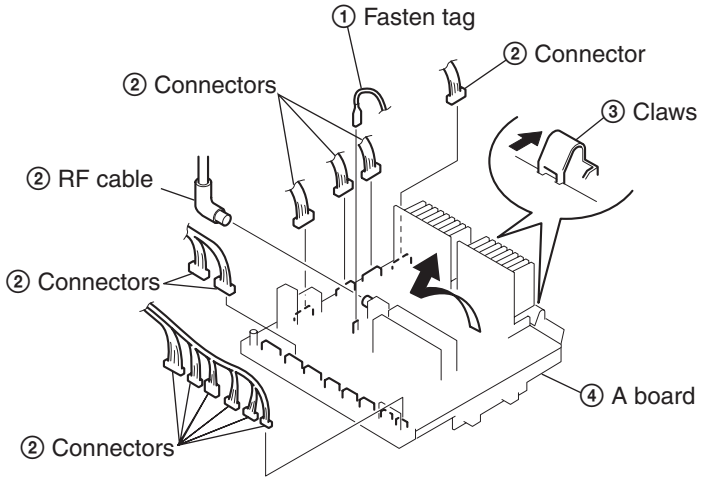
2-8. M, BD, S, N BOARDS REMOVAL



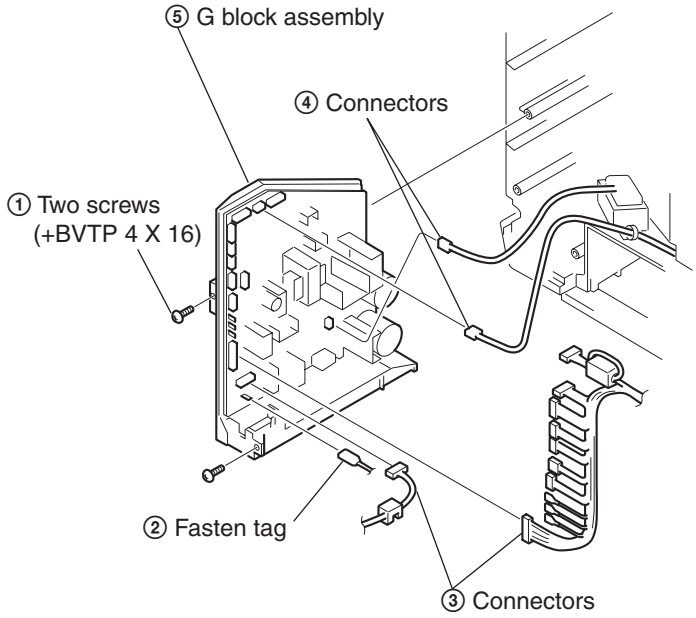
2-9. T BOARD



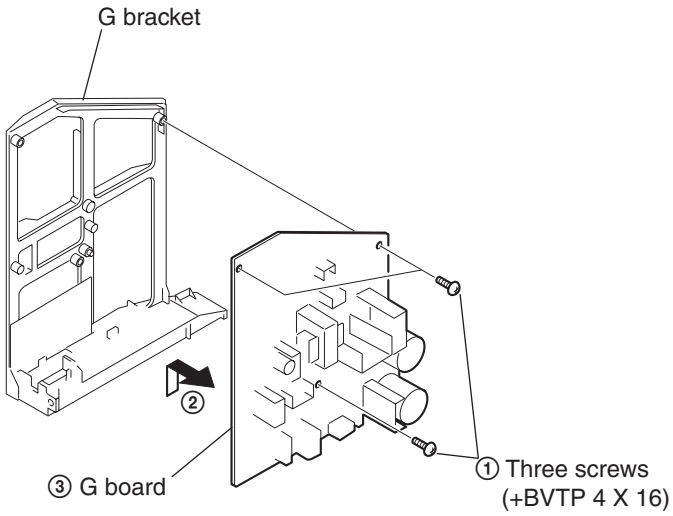
2-10. A BOARD REMOVAL



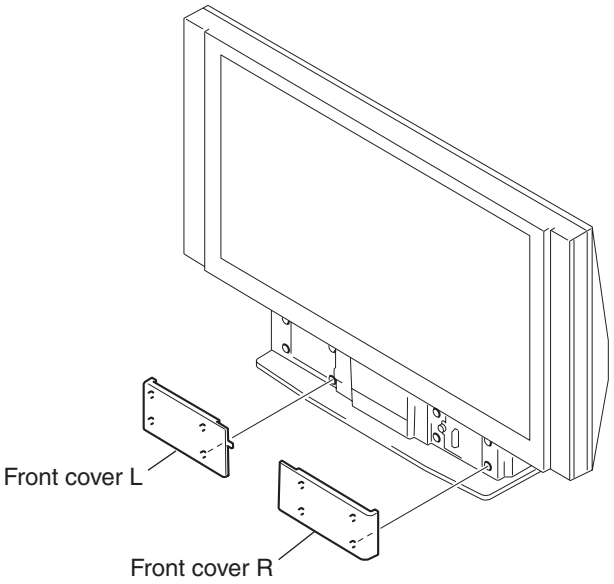
2-11. G BLOCK ASSEMBLY REMOVAL



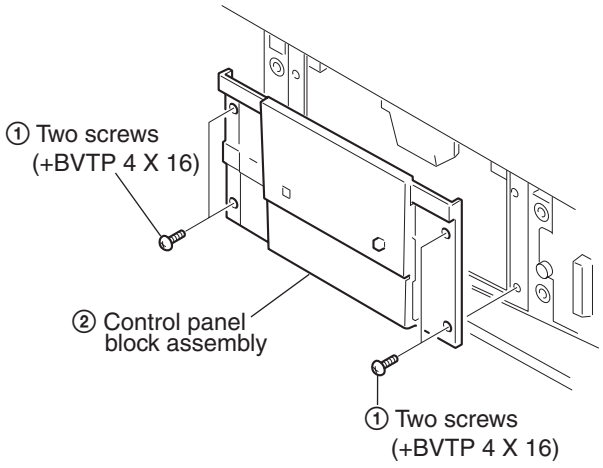
2-12. G BOARD REMOVAL



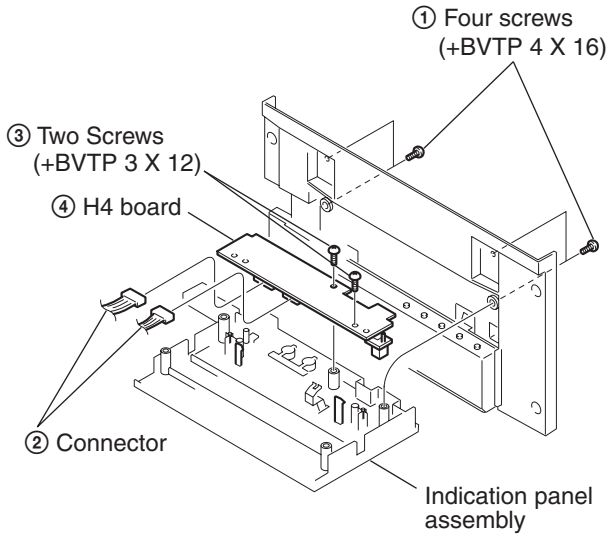
2-13. FRONT COVERS REMOVAL



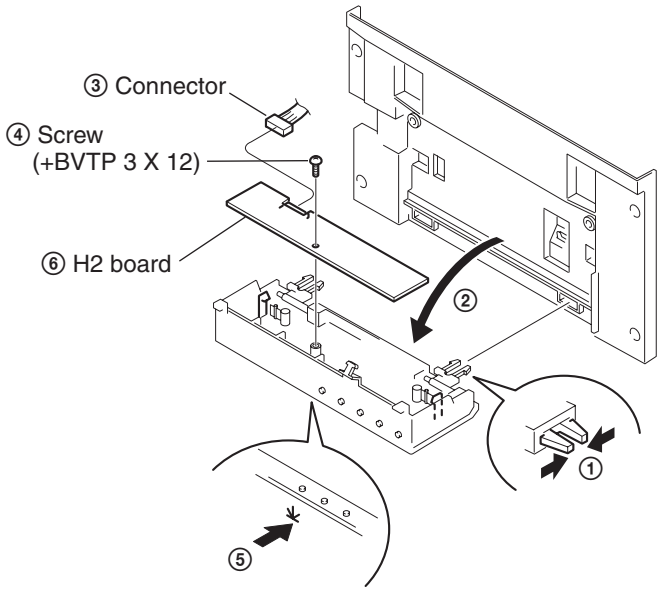
2-14. CONTROL PANEL BLOCK ASSEMBLY REMOVAL



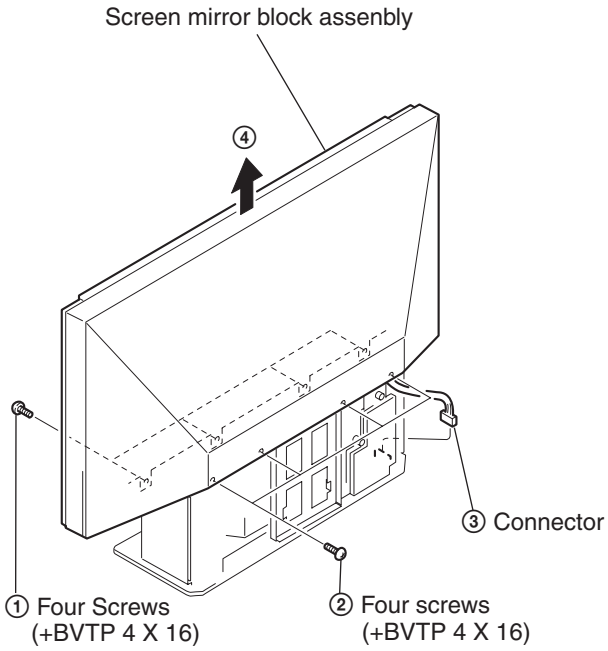
2-15. H4 BOARD REMOVAL



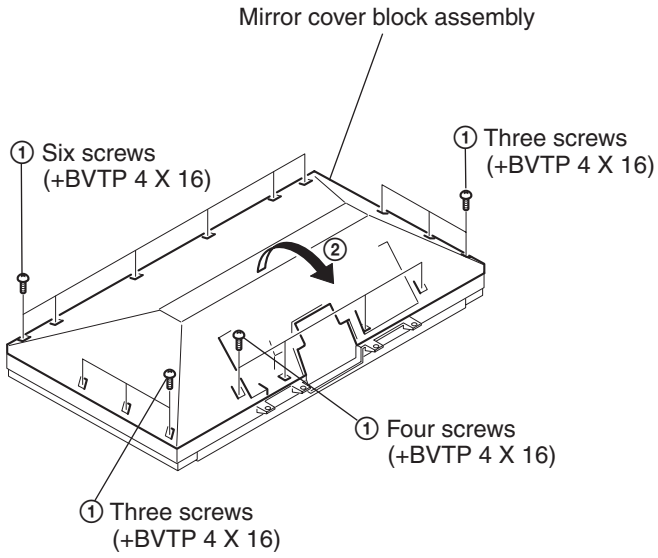
2-16. H2 BOARD REMOVAL



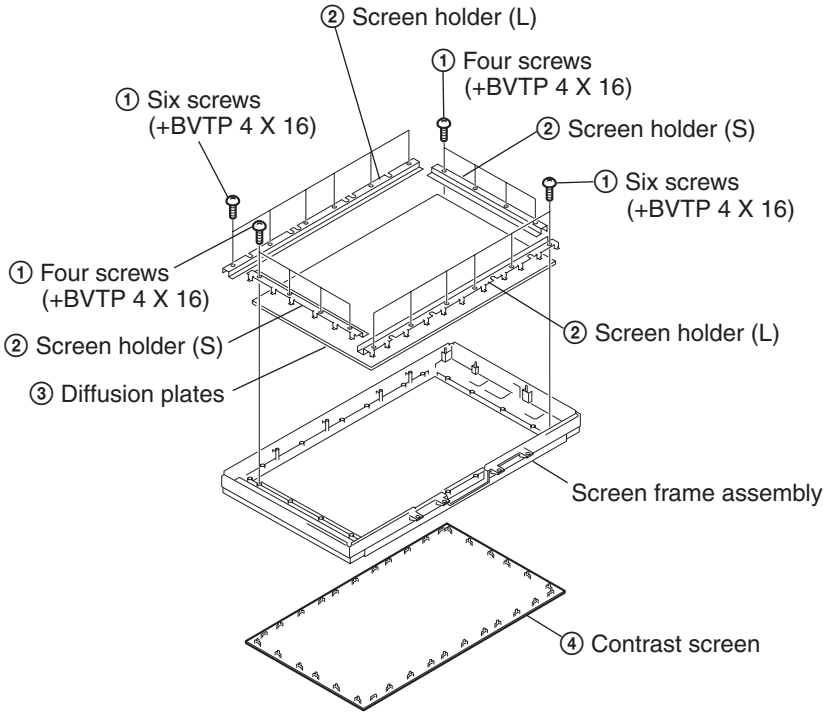
2-17. SCREEN, MIRROR BLOCK ASSEMBLY



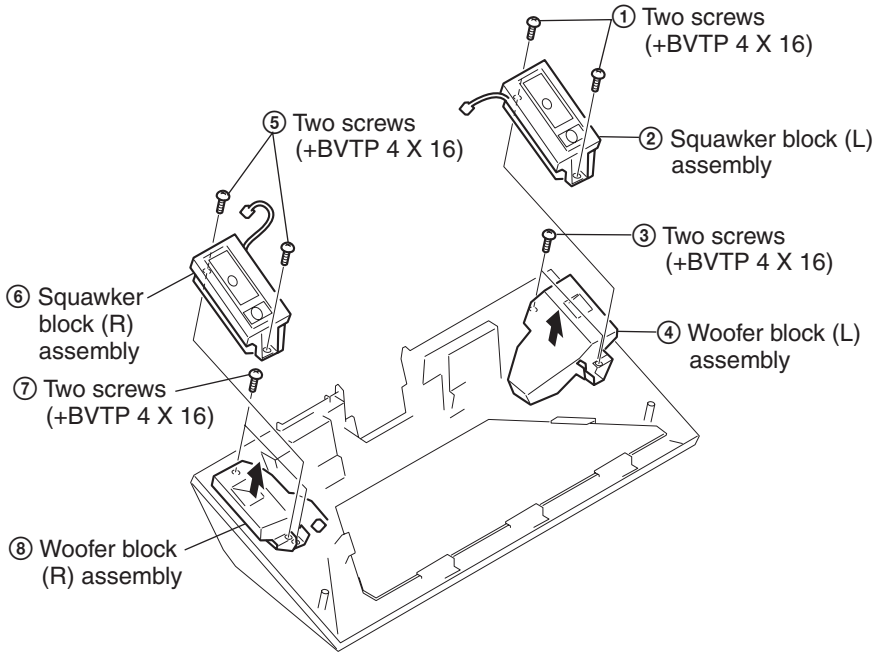
2-18. MIRROR COVER BLOCK ASSEMBLY REMOVAL



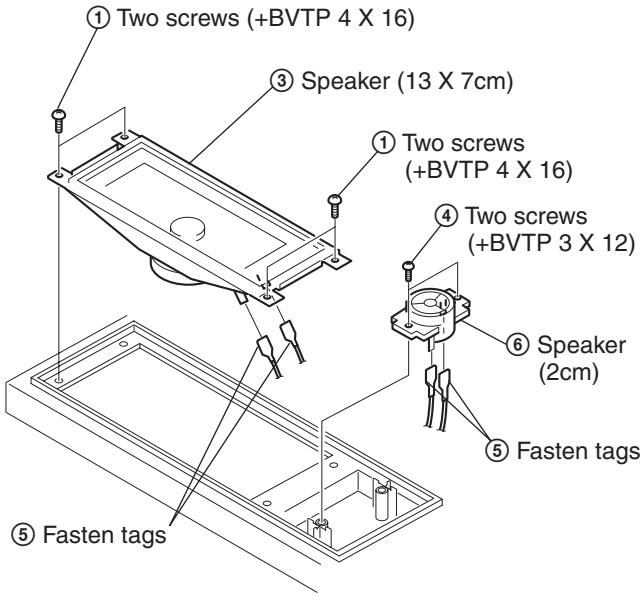
2-19. CONTRAST SCREEN, DIFFUSION PLATES REMOVAL


② Screen holder (L)
① Four screws (+BVTP 4 X 16)
① Six screws (+BVTP 4 X 16)
② Screen holder (S)
① Six screws (+BVTP 4 X 16)
① Four screws (+BVTP 4 X 16)
② Screen holder (L)
② Screen holder (S)
③ Diffusion plates
Screen frame assembly
④ Contrast screen

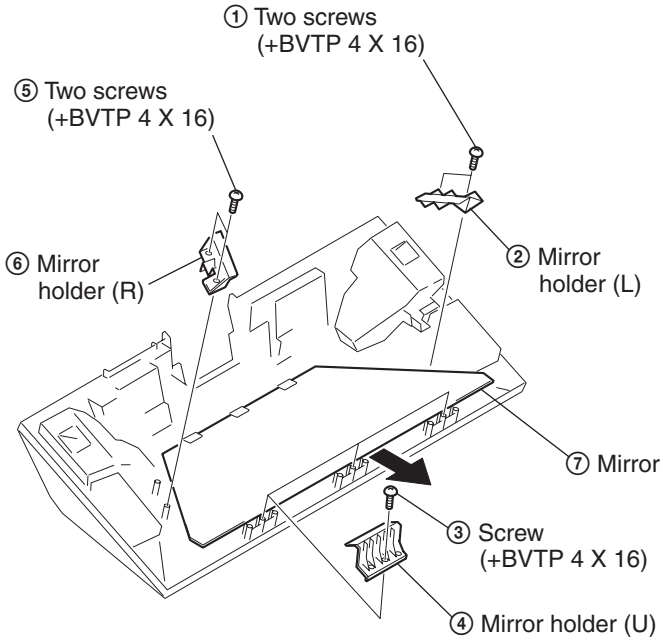
2-20. SQUAWKER BLOCK ASSEMBLIES, WOOFER BLOCK ASSEMBLY REMOVAL


① Two screws (+BVTP 4 X 16)
⑤ Two screws (+BVTP 4 X 16)
② Squawker block (L) assembly
③ Two screws (+BVTP 4 X 16)
⑥ Squawker block (R) assembly
④ Woofer block (L) assembly
⑦ Two screws (+BVTP 4 X 16)
⑧ Woofer block (R) assembly

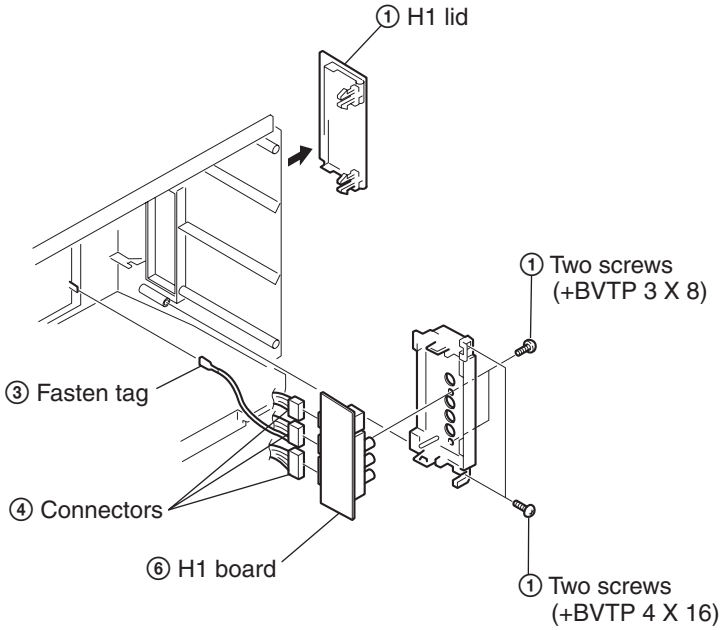
2-21. SPEAKERS REMOVAL


① Two screws (+BVTP 4 X 16)
③ Speaker (13 X 7cm)
① Two screws (+BVTP 4 X 16)
④ Two screws (+BVTP 3 X 12)
⑥ Speaker (2cm)
⑤ Fasten tags
⑤ Fasten tags

2-22. MIRROR REMOVAL

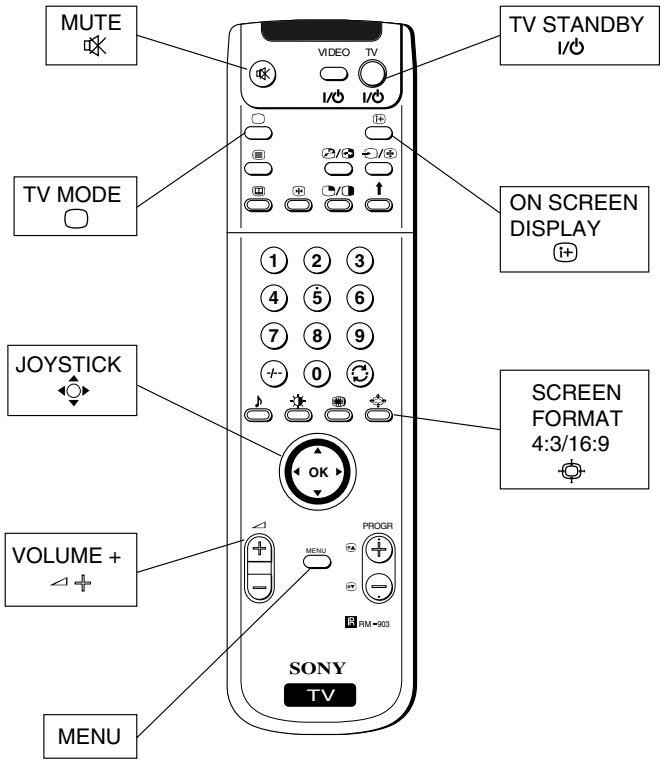


2-23. H1 BOARD REMOVAL



3-1. ADJUSTMENTS WITH COMMANDER

Service adjustment to this model can performed with the supplied remote commander RM-903.



RM-903

1. Selection of Mode Between PAL and NTSC

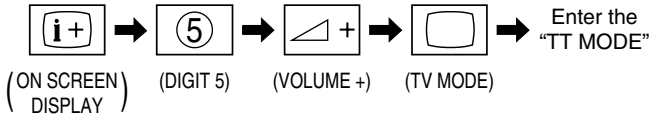
PAL mode : Enter PAL signal with color burst.
NTSC mode : Enter NTSC signal with color burst. (VIDEO input only)

2. Selection of Screen Format

1) Press "⊕ (BLUE)" button on the commander.
2) Press ▲ or ▼ key on the joystick to select screen format and press "◀⊕▶ (OK)" button. At this time, normal screen comes back. (In the TT mode, the menu is switched to the Service menu.)

3-1-1. How to Enter TT Mode

1. Turn on the main power switch to place this set in standby mode. (LED will light in red.)
2. Press the buttons on commander as follows, and the TT mode will be selected.



"TT - -" will appear in the top right corner of the screen.
Other status information will also be displayed.

3. Press "⓪" + "⓪" on the commander. If "🖵 (TV MODE)" button is pressed, the set exits from the TT mode and returns to normal TV mode.

3-1-2. How to Enter Service Menu

1. Select TT mode.
2. Press "MENU" button on the commander once, and normal menu screen will appear, or press it once more, and the following service menu screen will appear.

```
Service AE5(A)

Initialising
Reset Devices
Monitoring
Device Register Setting
Special Adjustment

Select : ▲▼        Next menu : ▶
```

3. Following the screen, press ▲ or ▼ key on the joystick to select the desired item, and press ▶ key to enter the selected item.
4. Press ▲ or ▼ key on the joystick to change data of each item, and press "◀⊕▶ (OK)" button to write changed data.
   (Except Projector Engine mode)
5. To return from each item, press ◀ key on the joystick. Or, to return to the TT mode, press the "MENU" button.
   (Except Projector Engine mode)

3-1-3. Screen Display for Service Menu

If each item of service menu is selected, the following screen is displayed.

• Initialising

```
Initialising

Model Setting
Destination Setting
Basic Setting
Feature Setting

Select : ▲▼        Next menu : ▶
```

• **Initialising → Model Setting**

Model Setting

1	KV-29FX60
2	KV-29FC60
3	KV-29FS60
4	KV-28FX60
5	KV-32FX60
6	KV-32FS60
7	KV-28FC60
8	KV-32FC60
9	KV-28FC60Z
10	KV-32FC60Z
11	KV-28FS70
12	KV-32FS70
13	KV-36FS70
14	KP-48PS1
15	KP-53PS1
16	KP-61PS1
17	KP-51PS1
18	KF-42SX100
19	KF-50SX100

BLACK = No conformity
GREEN = Compatible Model
RED = Conformity for all data

Select : ▲▼ Last menu : ◄ Set Model : ►

• **Initialising → Destination Setting**

Destination Setting

Multi
A
B
D
E
K
R
U

BLACK = No conformity
GREEN = Compatible Model
RED = Conformity for all data

Select : ▲▼ Last menu : ◄ Set Dest. : ►

• **Initialising → Basic Setting**

Basic Setting

No	Descr.	Min	Max	Data
1	Sys. B/G	OFF	ON	ON
2	Sys. D/K	OFF	ON	ON
3	Sys. L	OFF	ON	ON
4	Sys. I (UK)	OFF	ON	ON
5	Sys. I (IRL)	OFF	ON	OFF
6	TXT Nat. Option	1	4	3
7	Simple PAT	OFF	ON	ON
8	16 : 9 CRT	OFF	ON	ON
9	Sub-Woofer	OFF	ON	OFF
10	Auto Stand-By	OFF	ON	ON
11	Comb-Filter	OFF	ON	ON
12	Auto YC det	OFF	ON	ON
13	Auto Comb det	OFF	ON	ON
14	AV2 Available	OFF	ON	ON
15	AV3 Available	OFF	ON	ON
16	AV4 Available	OFF	ON	ON
17	AV3 Front & Rear	OFF	ON	OFF
18	SECAM Tape	OFF	ON	ON
19	AV1 Sound Mute	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

• **Initialising → Feature Setting**

Feature Setting

No	Descr.	Min	Max	Data
1	PAP	OFF	ON	ON
2	PAT	OFF	ON	ON
3	INDEX	OFF	ON	ON
4	EPG	OFF	ON	ON
5	Full EPG	OFF	ON	ON
6	Pict Boost Bypass	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

• **Reset Devices**

Reset Devices

Colour Decoder 1
Colour Decoder 2
Audio/Video Switch
MID-X
External PLL MID-X
Panorama Chip
Auto Wide
Sound
Picture Booster
MCP
Analog NR

Select : ▲▼ Last menu : ◄ Reset Dev. : ►

• **Monitoring**

Monitoring

Device Status Monitor
Error Monitor
LCD-Engine error menu
Production Monitor
NVM Monitor
Format Monitor
CNI Monitor

Select : ▲▼ Next menu : ►

• **Device Register Setting**

Device Register Setting

Colour Decoder 1
Colour Decoder 2
Audio/Video Switch
MID-X
External PLL MID-X
Panorama Chip
Auto Wide
Sound
Projector Engine
Picture Booster
MCP
Analog NR

Select : ▲▼ Next menu : ►

• **Device Register Setting → Colour Decoder 1**

Colour Decoder 1

No	Descr.	Def.	Min	Max	Data
1	TINT	31	0	63	31
2	SUB COLOUR	7	0	15	7
3	SUB CONTR	7	0	15	7
4	SHARP GAIN	8	0	15	8
5	Y-OUT LEV.	35	0	63	35
6	C-OUT LEV.	45	0	63	45
7	Y-DL	8	0	10	8
8	Cr OFF. 1	7	0	15	8
9	Cb OFF. 1	7	0	15	8
10	Cr OFF. 2	7	0	15	7
11	Cb OFF. 2	7	0	15	7
12	V CD FREQ	3	0	7	3
13	V CD MODE	1	0	3	0
14	MVM	OFF	OFF	ON	OFF
15	S R-Y ADJ	7	0	15	7
16	S B-Y ADJ	2	0	15	2
17	BELL/HPF	2	0	3	2
18	BELL F0	OFF	OFF	ON	OFF
19	S GP	0	0	3	0

Select : ▲▼ Last menu : ◄ Enter Item : ►

• **Device Register Setting → Colour Decoder 2**

Colour Decoder 2

No	Descr.	Def.	Min	Max	Data
1	TINT	31	0	63	31
2	SUB COLOUR	7	0	15	7
3	SUB CONTR	7	0	15	7
4	SHARP GAIN	8	0	15	8
5	Y-OUT LEV.	35	0	63	35
6	C-OUT LEV.	45	0	63	45
7	Y-DL	8	0	10	8
8	Cr OFF. 1	7	0	15	6
9	Cb OFF. 1	7	0	15	6
10	Cr OFF. 2	7	0	15	7
11	Cb OFF. 2	7	0	15	7
12	V CD FREQ	3	0	7	3
13	V CD MODE	1	0	3	0
14	MVM	OFF	OFF	ON	OFF
15	S R-Y ADJ	7	0	15	7
16	S B-Y ADJ	2	0	15	2
17	BELL/HPF	2	0	3	2
18	BELL F0	OFF	OFF	ON	OFF
19	S GP	0	0	3	0

Select : ▲▼ Last menu : ◄ Enter Item : ►

• **Device Register Setting → Audio/Video Switch**

Audio/Video Switch

No	Descr.	Def.	Min	Max	Data

• **Device Register Setting → MID-X**

MID-X

No	Descr.	Def.	Min	Max	Data
1	M H POS	–15	–31	31	–15
2	S H POS	–3	–8	8	–3
3	D YS SEL	1	0	3	1
4	D YS DELAY	7	0	7	7
5	D SYNC MOD	ON	OFF	ON	ON
6	Text Sharp	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➧ External PLL MID-X

External PLL MID-X

No	Descr.	Def.	Min	Max	Data
1	VCO7-0PAL	184	0	255	184
2	VCO7-0NTSC	172	0	255	172
3	VCO11-8	6	0	15	6
4	DIV1, 2, 4, 8	2	0	3	2
5	Fine Delay	0	0	63	0
6	Coar. Delay	0	0	3	0
7	Ch. Pump	0	0	3	0
8	PD Pol.	ON	OFF	ON	ON
9	DSync Wdth	3	0	3	3
10	Dsync Del	OFF	OFF	ON	OFF
11	Sync Pol	ON	OFF	ON	ON
12	DSync Pol	ON	OFF	ON	ON
13	Clk En	ON	OFF	ON	ON
14	NClk En	OFF	OFF	ON	OFF
15	Clk/2 En	OFF	OFF	ON	OFF
16	NClk/2 En	OFF	OFF	ON	OFF
17	DSync En	ON	OFF	ON	ON
18	Unlock En	OFF	OFF	ON	OFF
19	VCO Bypass	ON	OFF	ON	ON
20	Synth Pwr	ON	OFF	ON	ON
21	Rdout Pwr	OFF	OFF	ON	OFF
22	DIVOUT En	ON	OFF	ON	ON
23	DSync Byp	OFF	OFF	ON	OFF
24	DSync Hold	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➧ Panorama Chip

Panorama Chip

No	Descr.	Def.	Min	Max	Data
1	ROM speed	25	0	255	25
2	Prg. No.	0	0	11	0
3	HSize Offs	3	0	15	3
4	IMODE	0	0	255	0
5	Disable	OFF	OFF	ON	OFF
6	Send AUX	OFF	OFF	ON	OFF
7	AUX0	67	0	255	67
8	AUX1	0	0	255	0
9	AUX2	68	0	255	68
10	AUX3	0	0	255	0
11	AUX4	12	0	255	12
12	AUX5	81	0	255	81
13	AUX6	7	0	255	7
14	AUX7	0	0	255	0
15	AUX8	65	0	255	65
16	AUX9	244	0	255	244
17	AUX10	32	0	255	32
18	AUX11	209	0	255	209
19	AUX12	7	0	255	7
20	AUX13	0	0	255	0

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➧ Auto wide

Auto wide

No	Descr.	Def.	Min	Max	Data
1	Upara	ON	OFF	ON	ON
2	Upthin	OFF	OFF	ON	OFF
3	Enjtoz	OFF	OFF	ON	OFF
4	X149j	ON	OFF	ON	ON
5	Syncslc	OFF	OFF	ON	OFF
6	Tm	1	0	3	1
7	Uprlvl	OFF	OFF	ON	OFF
8	Ofslvl	OFF	OFF	ON	OFF
9	Alpf	3	0	3	3
10	eddec2	3	0	3	3
11	Lnstblz	ON	OFF	ON	ON
12	Lnhys	OFF	OFF	ON	OFF
13	Drkpri	ON	OFF	ON	ON

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➧ Sound

Sound

No	Descr.	Def.	Min	Max	Data
1	Carr.-Mute	ON	OFF	ON	ON
2	SCART1 Vol	79	0	127	79
3	SCART2 Vol	79	0	127	79
4	SCART-Pr.	27	0	127	27
5	I251-Pr.	16	0	127	16
6	I252-Pr.	16	0	127	16
7	FM Pr.	27	0	127	27
8	BG Nic. Pr.	53	0	127	53
9	L Nic. Pr.	59	0	127	59
10	DK Nic. Pr.	53	0	127	53
11	I Nic. Pr.	97	0	127	97
12	Irl Nic. Pr.	97	0	127	97
13	Subw. Vol.	0	-127	0	0
14	Bass Offs	0	-3	3	0
15	Treble Offs	2	-3	3	2
16	Loudn. Offs	0	0	9	0
17	HP-Vol Offs	-2	-5	5	-2
18	M-S Limit	30	-128	127	30
19	M-B Limit	-30	-128	127	-30
20	S-M Limit	12	-128	127	12
21	S-B Limit	-20	-128	127	-20
22	B-M Limit	-12	-128	127	-12
23	B-S Limit	20	-128	127	20
24	Err. Max	40	0	255	40
25	Err. Min	18	0	255	18
26	Vol. Offset	-3	-6	0	-3

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➧ Picture Booster

Picture Booster

No	Descr.	Def.	Min	Max	Data
1	DEM	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Device Register Setting ➔ Analog NR

Analog NR

No	Descr.	Def.	Min	Max	Data

• Device Register Setting ➔ MCP

MCP

No	Descr.	Def.	Min	Max	Data
1	Contrast	46	0	63	46
2	Hue	32	0	63	32
3	System	3	0	3	1
4	Colour	29	0	63	24
5	Brightness	55	0	63	55
6	Sharpness	31	0	63	29
7	R-Drive	42	0	63	42
8	D-Col	OFF	OFF	ON	OFF
9	G-Drive	42	0	63	42
10	B-Drive	42	0	63	42
11	R-Cutoff	20	0	63	20
12	G-Cutoff	20	0	63	20
13	B-Cutoff	20	0	63	20
14	H-Width	0	0	3	0
15	CR-Offset 1	2	0	15	11
16	CB-Offset 1	2	0	15	11
17	Sub-Contr.	7	0	15	7
18	Sub-Colour	7	0	15	7
19	Sub-Hue	7	0	15	7
20	CTI-Level	1	0	3	1
21	R-Y/R	10	0	15	10
22	R-Y/B	15	0	15	15
23	G-Y/R	10	0	15	10
24	G-Y/B	7	0	15	7
25	Gamma	3	0	15	3
26	P-Abl	15	0	15	15
27	BLK-Bottom	5	0	15	5
28	Sub-Sharp	1	0	3	1
29	Sharp F0	3	0	3	2
30	Pre/Over	1	0	3	1
31	LTI-Level	1	0	3	0
32	DC-Tran	0	0	3	0
33	DPIC-Level	0	0	3	0

Select : ▲▼ Last menu : ◄ Enter Item : ►

• Special Adjustment

Special Adjustment

No	Descr.	Min	Max	Data
1	RGB Level	0	7	0
2	RGB Gain	0	31	23
3	RGB PAT Level	0	7	0
4	RGB PAT Gain	0	31	18
5	Extra FW	0	255	255
6	EPG ChkS Check	OFF	ON	ON
7	SLicer High	OFF	ON	ON
8	FCW Wide	OFF	ON	OFF
9	Mpeg NR	OFF	ON	OFF
10	Notch Filter	OFF	ON	OFF
11	NLD step	-7	0	-1
12	PKD step	-15	0	-3
13	CRD step	0	15	3
14	SHP step	-7	0	-2
15	COL step	-7	0	-1
16	NTSC Auto Yc AV2	OFF	ON	ON
17	NTSC Auto Yc AV3	OFF	ON	ON
18	RGB Disable	OFF	ON	OFF
19	Telop C/M	OFF	ON	ON
20	Intern GD	OFF	ON	ON
21	AV2 YC mix out	OFF	ON	OFF

Select : ▲▼ Last menu : ◄ Enter Item : ►

3-1-4. Service List (Projector Engine) ▭ : Fixed data

D9512 TG

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 TG	0	INV CTL	0	0, 1	INVERT CONTROL	CXD9512
	1	POS CTL	13	0-15	POSITION CONTROL	
	2	H POS	9	0-255	TG H POSITION	
	3	V POS H	4	0-255	TG V POSTION H	
	4	V POS D	30	0-255	TG V POSITION DOT	
	5	HST POL	0	0, 1	HST POLARITY	
	6	HCK W	0	0, 1	HCK WIDTH	
	7	HST POS	15	0-63	HST POSITION	
	8	HCK POL	1	0, 1	HCK POLARITY	
	9	HCK A-INV	0	0, 1	HCK AUTO INVERT	
	10	VST POL	0	0, 1	VST POLARITY	
	11	VST A-INV	0	0, 1	VST AUTO INVERT	
	12	HST PHA	1	0-15	HST PHASE	
	13	VCK POL	0	0, 1	VCK POLARITY	
	14	VST POS	0	0-127	VST POSITION	
	15	ENB POS	23	0-255	ENB POSITION	
	16	ENB W	40	0-255	EMB POSITION	
	17	BLK ON	0	0, 1	BLK ON	
	18	BLK POL	0	0, 1	BLK POLARITY	
	19	PCG POS	2	0-63	PCG POSITION	
	20	PCG B-OR	0	0, 1	PCG BLK OR	
	21	PCG B-SEL	0	0, 1	PCG BLK SELECT	
	22	PCG W	3	0-63	PCG WIDTH	
	23	PRG POS	2	0-63	PRG POSION	
	24	PRG B-OR	0	0, 1	PRG BLK OR	
	25	PRG B-SEL	0	0, 1	PRG BLK SELECT	
	26	PRG W	9	0-63	PRG WIDTH	
	27	BLK POS	0	0-255	BLK POSTION	
	28	BLK W	0	0-255	BLK WIDTH	
	29	CLR W	0	0-255	CLR WIDTH	

D9512 IM

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 IM	0	V-ST-POS	9	0-255	V START POSITION	CXD9512
	1	H-ST-POS	97	0-255	H START POSITION	
	2	SUB CON	32	0-63	SUB CONTRAST LEVEL	
	3	SUB BRT	12	0-63	SUB BRIGHT LEVEL	
	4	V BLKT H	0	0-255	V BLANKING POSITION TOP	
	5	V BLKT L	0	0.-3	V BLANKING POSITION TOP2	
	6	V BLKB H	0	0-255	V BLANKING POSITION BOTTOM	
	7	V BLKB L	0	0-3	V BLANKING POSITION BOTTOM 2	
	8	H BLKL H	0	0-255	H BLANKING POSITION LEFT	
	9	H BLKL L	0	0-3	H BLANKING POSITION LEFT 2	
	10	H BLKR H	0	0-255	H BLANKING POSITION RIGHT	
	11	H BLKR L	0	0-3	H BLANKING POSITION RIGHT 2	
	12	ASL SW	0	0, 1	ASL SWITCH	
	13	ASL SEL	0	0-3	ASL SELECT	
	14	B PIC LV	0	0-15	BLUE PICASL LEVEL	
	15	B BRT LV	15	0-15	BLUE BRTASL LEVEL	
	16	G PIC LV	0	0-15	GREEN PICASL LEVEL	
	17	G BRT LV	15	0-15	GREEN BRTASL LEVEL	
	18	R PIC LV	0	0-15	RED PICASL LEVEL	
	19	R BRT LV	15	0-15	RED BRTASL LEVEL	
	20	PIC AREA	7	0-7	PICASL AREA	
	21	BRT AREA	7	0-7	BRTASL AREA	
	22	PIC ST	0	0-3	PICASL START TIMING	
	23	BRT ST	0	0-3	BRTASL START TIMING	
	24	PRE SL	3	0-3	PRE SLOPE	
	25	POST SL	3	0-3	POST SLOPE	
	26	APC MODE	2	0-2	APC MODE	
	27	APC SW	1	0, 1	APC SWITCH	
	28	APC TH	10	0-255	APC THRESHOLD	
	29	APC LIMT	30	0-63	APC LIMITTER	
	30	APC LEV	60	0-255	APC LEVEL	

			LIVE	PERSONAL	MOVIE	GAME		
	31	G-PICT	100	69	66	69	0-100	PICTURE
	32	G-BRIGHT	51	51	51	51	0-100	BRIGHT

RM-903

D9512 WB

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 WB	0	B GAIN	127	0-255	W/B GAIN BLUE	CXD9512
	1	G GAIN	127	0-255	W/B GAIN GREEN	
	2	R GAIN	127	0-255	W/B GAIN RED	
	3	B BIAS	85	0-255	W/B BIAS BLUE	
	4	G BIAS	85	0-255	W/B BIAS GREEN	
	5	R BIAS	85	0-255	W/B BIAS RED	
	6	B GAIN H	143	0-255	W/B GAIN BLUE	
	7	G GAIN H	125	0-255	W/B GAIN GREEN	
	8	R GAIN H	130	0-255	W/B GAIN RED	
	9	B BIAS H	127	0-255	W/B BIAS BLUE	
	10	G BIAS H	130	0-255	W/B BIAS GREEN	
	11	R BIAS H	128	0-255	W/B BIAS RED	
	12	B GAIN L	115	0-255	W/B GAIN BLUE	
	13	G GAIN L	125	0-255	W/B GAIN GREEN	
	14	R GAIN L	144	0-255	W/B GAIN RED	
	15	B BIAS L	128	0-255	W/B BIAS BLUE	
	16	G BIAS L	127	0-255	W/B BIAS GREEN	
	17	R BIAS L	120	0-255	W/B BIAS RED	

D9512 TES

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 TES	0	REF PER	1	0, 1	REFRESH PERMISSION	CXD9512
	1	REF LENG	0	0-7	REFRESH LENGTH	
	2	G-LUT SW	0	0, 1	GAMMA LUT THROUGH	
	3	CORR WGT	2	0-3	CORRECT WEIGHT	
	4	SHAD SW	0	0, 1	SHADING SWITCH	
	5	3D-G SW	0	0, 1	3D GAMMA SWITCH	
	6	3D-G Z	0	0, 1	3D GAMMA MODE Z	
	7	3D-G VH	0	0, 1	3D GAMMA MODE VH	
	8	3D-G BS	1	0, 1	3D GAMMA BLOCK SIZE	
	9	AGC P SW	1	0, 1	AGC PULSE SWITCH	
	10	AGC SHP POS	43	0-127	AGC SH PULSE POSITION	
	11	AGC SHP SEL	1	0-3	AGC SH PULSE SELECT	
	12	AGC SHP W	2	0-63	AGC SH PULSE WIDTH	

D9512 TPN

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 TPN	0	T-PATN SW	0	0, 1	TEST PATTERN SWITCH	CXD9512
	1	T-SIG SEL	1	0-7	TEST SIGNAL SELECT	
	2	PATN DIR	1	0, 1	PATTERN DIRECTION	
	3	SIG LV DIR	0	0, 1	SIGNAL LEVEL DIRECTION	
	4	T-PATN PIT	144	0-255	TEST PATTERN PITCH	
	5	B-LV	25	0-63	BLUE TEST PATTERN LEVEL	
	6	G-LV	25	0-63	GREEN TEST PATTERN LEVEL	
	7	R-LV	25	0-63	RED TEST PATTERN LEVEL	
	8	T-PATN RGB	7	0-7	RGB TEST ENABLE	

D9512 TFR

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
D9512 TFR	0	CRIP	1	0, 1	FRAME CRIP	CXD9512
	1	CUR TOP	0	0, 1	FRAME CURSOR TOP	
	2	CUR BOT	0	0, 1	FRAME CURSOR BOTTOM	
	3	CUR L	0	0, 1	FRAME CURSOR LEFT	
	4	CUR R	0	0, 1	FRAME CURSOR RIGHT	
	5	POS TOP	0	0-255	FRAME POSITION TOP	
	6	POS BOT	255	0-255	FRAME POSITION BOTTOM	
	7	POS L	0	0-255	FRAME POSION LEFT	
	8	POS R	255	0-255	FRAME POSITION RIGHT	
	9	OSD B	25	0-31	BLUE OSD LEVEL	
	10	OSD G	25	0-31	GREEN OSD LEVEL	
	11	OSD R	25	0-31	RED OSD LEVEL	
	12	OSD YM	0	0-7	PICTURE HALF TONE LEVEL	
	13	OSD I	3	0-7	OSD HALF TONE LEVEL	

GAMMA

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
GAMMA	0	ADJ ON	0	0, 1	INVERT CONTROL	
	1	GAMMA R0	255	0-255	GAMME ADJ (R)	
	2	GAMMA R1	255	0-255	GAMME ADJ (R)	
	3	GAMMA R2	255	0-255	GAMME ADJ (R)	
	4	GAMMA R3	255	0-255	GAMME ADJ (R)	
	5	GAMMA R4	255	0-255	GAMME ADJ (R)	
	6	GAMMA R5	255	0-255	GAMME ADJ (R)	
	7	GAMMA R6	255	0-255	GAMME ADJ (R)	
	8	GAMMA R7	255	0-255	GAMME ADJ (R)	
	9	GAMMA G0	255	0-255	GAMME ADJ (G)	
	10	GAMMA G1	255	0-255	GAMME ADJ (G)	
	11	GAMMA G2	255	0-255	GAMME ADJ (G)	
	12	GAMMA G3	255	0-255	GAMME ADJ (G)	
	13	GAMMA G4	255	0-255	GAMME ADJ (G)	
	14	GAMMA G5	255	0-255	GAMME ADJ (G)	
	15	GAMMA G6	255	0-255	GAMME ADJ (G)	
	16	GAMMA G7	255	0-255	GAMME ADJ (G)	
	17	GAMMA B0	255	0-255	GAMME ADJ (B)	
	18	GAMMA B1	255	0-255	GAMME ADJ (B)	
	19	GAMMA B2	255	0-255	GAMME ADJ (B)	
	20	GAMMA B3	255	0-255	GAMME ADJ (B)	
	21	GAMMA B4	255	0-255	GAMME ADJ (B)	
	22	GAMMA B5	255	0-255	GAMME ADJ (B)	
	23	GAMMA B6	255	0-255	GAMME ADJ (B)	
	24	GAMMA B7	255	0-255	GAMME ADJ (B)	

LCD-DR

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
LCD-DR	0	FRP CNT	0	0, 1	FR PULSE CONT	
	1	R VCOM	127	0-255	V COM ADJ (R)	
	2	R ODD VR	24	0-255	ODD ADJ (R)	
	3	R EVEN VR	24	0-255	EVEN ADJ (R)	
	4	R DLY CNT	127	0-255	DLY CONT (R)	
	5	R DA VSET	200	0-255	D/A VOLTAGE SET (R)	
	6	G VCOM	127	0-255	V COM ADJ (G)	
	7	G ODD VR	24	0-255	ODD ADJ (G)	
	8	G EVEN VR	24	0-255	EVEN ADJ (G)	
	9	G DLY CNT	127	0-255	DLY CONT (G)	
	10	G DA VSET	200	0-255	D/A VOLTAGE SET (G)	
	11	B VCOM	127	0-255	V COM ADJ (B)	
	12	B ODD VR	97	0-255	ODD ADJ (B)	
	13	B EVEN VR	97	0-255	EVEN ADJ (B)	
	14	B DLY CNT	127	0-255	DLY CONT (B)	
	15	B DA VSET	177	0-255	D/A VOLTAGE SET (B)	
	16	R VREF SEL	0	0, 1	VOLTAGE REF SELECT (R)	
	17	G VREF SEL	0	0, 1	VOLTAGE REF SELECT (G)	
	18	B VREF SEL	0	0, 1	VOLTAGE REF SELECT (B)	

GPLL-C-JPN

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
GPLL-C-JPN	0	VCOL	248	0-255	COUNTER L	
	1	VCOH	5	0-15	COUNTER H	
	2	DIV	2	0-3	DIVIDER	
	3	CODL	0	0-3	DELAY	
	4	FIDL	15	0-31	FINE DELAY	
	5	PPOL	1	0, 1	PHASE COMP. INPUT POLARITY SET	
	6	CPMP	2	0-3	CHARGE PUMP	
	7	UNLO	1	0, 1	UNLOCK OUT ON/OFF	
	8	DSYN	1	0, 1	DELAY SYNC ON/OFF	
	9	CL2	1	0, 1	1/2 TTL CLOCK ON/OFF	
	10	DSYP	0	0, 1	DELAY SYNC OUTPUT POLARITY	
	11	SYP	0	0, 1	INPUT SYNC POLARITY	

PLL-C-N/P

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
PLL-C-N/P	0	VCOL	248	0-255	COUNTER L	
	1	VCOH	5	0-15	COUNTER H	
	2	DIV	2	0-3	DIVIDER	
	3	CODL	0	0-3	DELAY	
	4	FIDL	15	0-31	FINE DELAY	
	5	PPOL	1	0, 1	PHASE COMP. INPUT POLARITY SET	
	6	CPMP	2	0-3	CHARGE PUMP	
	7	UNLO	1	0, 1	UNLOCK OUT ON/OFF	
	8	DSYN	1	0, 1	DELAY SYNC ON/OFF	
	9	CL2	1	0, 1	1/2 TTL CLOCK ON/OFF	
	10	DSYP	0	0, 1	DELAY SYNC OUTPUT POLARITY	
	11	SYP	0	0, 1	INPUT SYNC POLARITY	

IP00C741A No mark : PAL or commom, ( ) : NTSC

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IP00C741A	0	CALCULATION	0	0, 1		
	1	OACTHST-L	92 (95)	0-255	OUTPUT PORT ACT HORIZONTAL START POINT	
	2	OACTHST-H	0	0-15	OUTPUT PORT ACT HORIZONTAL START POINT	
	3	SYRDLY	22 (11)	0-255	FORCED SYNC RESET DELAY	
	4	HZOOM-L	30	0-255	HORIZONTAL ENLARGEMENT CONTROL	
	5	HZOOM-H	14	0-15	HORIZONTAL ENLARGEMENT CONTROL	
	6	VZOOM-L	0 (10)	0-15	VERTICAL ENLARGEMENT CONTROL	
	7	VZOOM-H	192 (160)	0-255	VERTICAL ENLARGEMENT CONTROL	
	8	OHCYCL-L	127 (16)	0-255	OUTPUT PORT HORIZONTAL SYNC SIGNAL CYCLE	
	9	OHCYCL-H	3	0-15	OUTPUT PORT HORIZONTAL SYNC SIGNAL CYCLE	
	10	OVCYCL-L	232	0-255	OUTPUT PORT VERTICAL SYNC SIGNAL CYCLE	
	11	OVCYCL-H	3	0-15	OUTPUT PORT VERTICAL SYNC SIGNAL CYCLE	
	12	OACTHW-L	168	0-255	OUTPUT PORT ACT HORIZONTAL WIDTH	
	13	OACTHW-H	2	0-15	OUTPUT PORT ACT HORIZONTAL WIDTH	
	14	OACTVST-L	0	0-255	OUTPUT PORT ACT VERTICAL DIRECTION START POINT	
	15	OACTVST-H	0	0-15	OUTPUT PORT ACT VERTICAL DIRECTION START POINT	
	16	OACTVW-L	0	0-255	OUTPUT PORT ACT VERTICAL WIDTH	
	17	OACTVW-H	3	0-15	OUTPUT PORT ACT VERTICAL WIDTH	
	18	IACTHST-L	111 (116)	0-255	INPUT PORT ACT HORIZONTAL START POINT	
	19	IACTHST-H	0	0-15	INPUT PORT ACT HORIZONTAL START POINT	
	20	IACTHW-L	88	0-255	INPUT PORT ACT HORIZONTAL WIDTH	
	21	IACTHW-H	2	0-15	INPUT PORT ACT HORIZONTAL WIDTH	
	22	IACTVST-L	23 (4)	4-255	INPUT PORT ACT VERTICAL START POINT	
	23	IACTVST-H	0	0-15	INPUT PORT ACT VERTICAL START POINT	
	24	IACTVW-L	64 (226)	0-255	INPUT PORT ACT VERTICAL WIDTH	
	25	IACTVW-H	2 (1)	0-15	INPUT PORT ACT VERTICAL WIDTH	

IP00C741E

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IP00C741E	0	OHSCT	8	0-31	OUTPUT PORT HORIZONTAL SYNC SIGNAL CONTROL	
	1	OVPH	0	0-7	OUTPUT PORT VERTICAL SYNC SIGNAL CONTROL	
	2	OVSCT	7	0-15	OUTPUT PORT VERTICAL SYNC SIGNAL CONTROL	
	3	IIMGCT	0	0, 1	INPUT IMAGE CONTROL SIGNA	
	4	IBIE	0	0, 1	BUSY/INT ENABLE BIT	
	5	BI	0	0, 1	BUSY/INT SPECIFICATION BIT	
	6	ICMD	1	0, 1	IMAGE INPUT COMMAND	
	7	OCMD	1	0, 1	IMAGE OUTPUT COMMAND	
	8	SYREN	1	0, 1	FORCED SYNCHRONIZATION ENABLE	
	9	SYRMOD	1	0, 1	FORCED SYNCHRONIZATION TIMING CONTROL	
	10	ACTPOL	0	0, 1	POACT OUTPUT POLARITY SELECT	
	11	ACTS	0	0-3	POACT SELECT	
	12	OGEN	1	0, 1	IMAGE OUTPUT PORT SYNC SIGNAL GENERATION ENABLE	
	13	OHPOL	0	0, 1	POLARITY OF THE POHS SIGNAL	
	14	OVPOL	0	0, 1	OUTPUT PORT VERTICAL SYNC SIGNAL CONTROL	
	15	OACT-MOD	1	0, 1	OUTPUT PORT ACT MODE SELECT	
	16	OACT-DL	0	0-3	OUTPUT PORT ACT START TIMING	
	17	OACT-HMK	0	0, 1	OUTPUT PORT ACT START POHS MARK	
	18	OMOD	0	0, 1	IMAGE OUTPUT MODE	
	19	OBKSL	0	0, 1	IMAGE OUTPUT SELECT	
	20	OFILLEN	0	0, 1	OUTPUT FILL	
	21	OPXDLY	0	0, 1	OUTPUT 1 PIXEL DELAY	
	22	IAPOL	0	0, 1	PIACT SIGNAL POLARITY SELECT	
	23	IVPOL	1	0, 1	V SYNC SIGNAL POLARITY SELECT	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	24	IHPOL	0	0, 1	H SYNC SIGNAL POLARITY SELECT	
	25	IVSSEL	0	0-3	V SYNC SIGNAL SELECT	
	26	IHSSEL	0	0, 1	H SYNC SIGNAL SELECT	
	27	IMOD	0	0, 1	IMAGE INPUT MODE	
	28	VAL	0	0-3	PIXEL VALUE MEASUREMENT MODE	
	29	UPSEL	0	0, 1	PIXEL SELECTION DURING INTERLEAVED INPUT	
	30	MONSTV-L	5	0-255	IMAGE MONITOR VERTICAL START POINT	
	31	MONSTV-H	0	0-7	IMAGE MONITOR VERTICAL START POINT	
	32	MONEDV-L	5	0-255	IMAGE MONITOR VERTICAL END POINT	
	33	MONEDV-H	1	0-7	IMAGE MONITOR VERTICAL END POINT	
	34	MONSTH-L	0	0-255	IMAGE MONITOR HORIZONTAL START POINT	
	35	MONSTH-H	0	0-7	IMAGE MONITOR HORIZONTAL START POINT	
	36	MONVW	0	0-255	IMAGE MONITOR VERTICAL WIDTH	
	37	MONHW	0	0-255	IMAGE MONITOR HORIZONTAL WIDTH	
	38	ECLP	0	0, 1	ERROR PROPAGATIOON OVERFLOW PROTECTION ENABLE	
	39	EDMOD0	0	0, 1	ERROR DIFFUSION MODE	
	40	EDEN	0	0, 1	ERROR DIFFUSION ENABLE	
	41	GOHSW-L	0	0-255	VERTICAL SYNC SIGNAL JUDGE COUNTER VALIE	
	42	GOHSW-H	0	0-15	VERTICAL SYNC SIGNAL JUDGE COUNTER VALIE	
	43	RTG1	2	0-3	REGISTER TRANSFER CONTROL	
	44	RTG0	2	0-3	REGISTER TRANSFER CONTROL	
	45	POSNEG	0	0, 1	IMAGE OUTPUT SYNC CLOCK SELECT	
	46	OBTSWP	0	0, 1	INPUT/OUTPUT SIGNAL SELECTION	
	47	OBYSWP	0	0, 1	INPUT/OUTPUT SIGNAL SELECTION	
	48	IBTSWP	0	0, 1	INPUT/OUTPUT SIGNAL SELECTION	
	49	IBYSWP	0	0, 1	INPUT/OUTPUT SIGNAL SELECTION	
	50	ISMPMD	0	0-3	INPUT/OUTPUT SIGNAL SELECTION	

IP00C741L

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IP00C741L	0	HZAS	0	0, 1	H ZOOM AS	
	1	HZLE	0	0, 1	HORIZONTAL ENLARGEMENT INTERPOLATION COEFFICIENT LOOKUP TABLE ENABLE	
	2	HZMD	1	0, 1	HORIZONTAL ENLARGEMENT MODE	
	3	HZIP	1	0, 1	HORIZONTAL ENLARGEMENT INTERPOLATION ENABLE	
	4	VZAS	0	0, 1	V ZOOM AS	
	5	VZLE	0	0, 1	VERTICAL ENLARGEMENT INTERPOLATION COEFFICIENT LOOKUP TABLE ENABLE	
	6	VZMD	1	0, 1	VERTICAL ENLARGEMENT MODE	
	7	VZIP	1	0, 1	VERTICAL ENLARGEMENT INTERPOLATION ENABLE	
	8	COLUTH0	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	9	COLUTH1	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	10	COLUTH2	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	11	COLUTH3	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	12	COLUTH4	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	13	COLUTH5	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	14	COLUTH6	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	15	COLUTH7	0	0-63	HORIZONTAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	16	COLUTV0	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	17	COLUTV1	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
	18	COLUTV2	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	19	COLUTV3	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	20	COLUTV4	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	21	COLUTV5	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	22	COLUTV6	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	
	23	COLUTV7	0	0-63	VERTICAL INTERPOLATION COEFFICIENT LOOKUP TABLE REGISTER	

IP00C741R

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IP00C741R	1	IFV L	0	0-255	NUMBER OF H SYNC SIGNALS ON INPUT PORT DURING V SYNC PERIOD	
	2	IFV H	0	0-3	NUMBER OF H SYNC SIGNALS ON INPUT PORT DURING V SYNC PERIOD	
	3	IPXCNT L	0	0-255	NUMBER OF IMAGE OUTPUT CLOCKS FOR ARBITRARY INPUT IMAGE LINES	
	4	IPXCNT M	0	0-255	NUMBER OF IMAGE OUTPUT CLOCKS FOR ARBITRARY INPUT IMAGE LINES	
	5	IPXCNT H	0	0-31	NUMBER OF IMAGE OUTPUT CLOCKS FOR ARBITRARY INPUT IMAGE LINES	
	6	IPX00	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	7	IPX01	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	8	IPX02	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	9	IPX03	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	10	IPX10	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	11	IPX11	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	12	IPX12	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	13	IPX13	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	14	IPX20	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	15	IPX21	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	16	IPX22	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	17	IPX23	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	18	IPX30	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	19	IPX31	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	20	IPX32	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	
	21	IPX33	0	0-255	INPUT SCREEN SPECIFIED POSITION PIXEL VALUE MONITOR	

OSD E

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
IOSD E	0	VPOS	8	0-31	ENGINE SERVICE INDICATION V POSTION	
	1	HPOS	15	0-63	ENGINE SERVICE INDICATION H POSTION	
	2	OUT SYNC	0	0, 1	NOT USED ON SERVICE	
	3	OUT TIMI	1	0, 1	NOT USED ON SERVICE	
	4	OUT PHAS	0	0, 1	NOT USED ON SERVICE	
	5	OUT SEL	1	0, 1	NOT USED ON SERVICE	

OPTION E

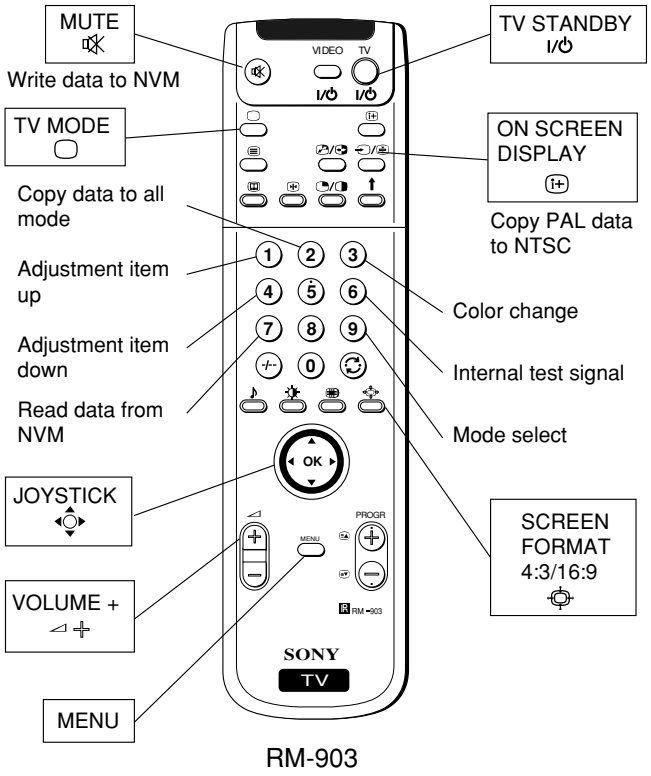
Category	Item number	Adjustment item	Standard data	Data range	Note	Device
OPTION E	0	LAMP TIME	0	0, 1	LAMP LIGHTING TIME	
	1	LAMP OFF	0	0, 1	TIME FROM POWER OFF TO LAMP OFF (0: 0sec., 1: 5sec.)	
	2	FAN OFF	1	0, 1	TIME TO FAN STOP (0: 2min., 1: 2min.)	
	3	FAN1 RPM1	2	0-3	ROTATING SPEED OF FAN FOR OPTICS ON NORMAL CONDITION	
	4	FAN1 RPM2	2	0-3	ROTATING SPEED OF FAN FOR OPTICS AFTER POWER OFF	
	5	FAN2 RPM1	1	0-3	ROTATING SPEED OF FAN FOR LAMP ON NORMAL CONDITION	
	6	FAN2 RPM2	1	0-3	ROTATING SPEED OF FAN FOR LAMP AFTER POWER OFF	
	7	FLAG1	0	0-15	NOT USED ON SERVICE	
	8	AGING PT	1	0, 1	NOT USED ON SERVICE	
	9	TEMP SHIFT	1	0, 1	TEMPERATURE CORRECTION ON/OFF (0: OFF, 1: ON)	

LM75

Category	Item number	Adjustment item	Standard data	Data range	Note	Device
LM75	0	SET	41DG	0-99DG	TEMPERATURE SWITCHING TO MAXIMUM VELOCITY OF WIND	
	1	TIME	10MIN	0-99MIN	TIME TO KEEP MAXIMUM VELOCITY OF WIND AND TO DETECT	

3-2. LCD PROJECTOR ENGINE

3-2-1. Operation Method for Projector Engine Mode



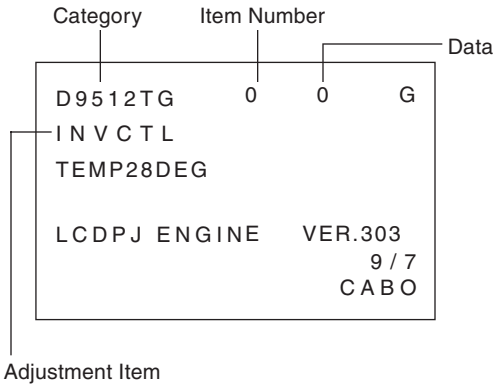
RM-903

1. Functions of Keys on Commander

- ① : Changes adjustment item. (item No. moves up)
- ④ : Changes adjustment item. (item No. moves down)
- ③ : Changes data value. (up)
- ⑥ : Changes data value. (down)
- ② : Changes adjustment device. (up)
- ⑤ : Changes adjustment device. (down)
- (MUTE)+⓪ : Writes data to NVM.
- ⑦+⓪ : Reads data from NVM.
- ⑧+⓪ : Initialize NVM data.

2. How to Enter Projector Engine Mode

1) "Projector Engine".
2) Press "①" or "④" button on the commander to select the item, and press "③" or "⑥" on the commander to change the data.



3) Before returning to the Service menu, press "(MUTE)" +"⓪" buttons on the commander to write the data. (Omission of this operation causes the set data to be returned to the data before adjustment)
4) Press "MENU" button on the commander to return to the Service menu.

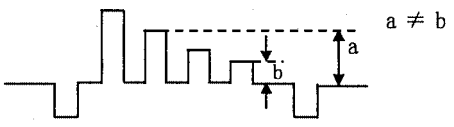
3-3. SUB COLOUR ADJUSTMENT

1. Input the colour bar (100% white) signal to AV4 and select AV4.
2. Setting

MCP	4	Colour	23
MCP	8	D-Col	OFF
MCP	26	Gamma	0
MCP	33	DC Tran	0
MCP	34	DPIC-Level	0

   Initialising ➡ Feature setting
   6 Pict Boost Bypass ON
3. Connect an oscilloscope to pin 1 of CN702 on BB board.
4. Adjust by changing data of "MCP 19 Sub-Colour" as shown in the figure.
5. Write the data into memory.

Before adjustment



After adjustment

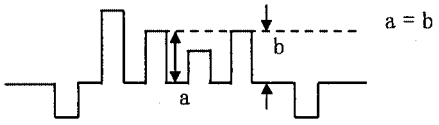


Fig. 3-1

3-4. RGB OUTPUT LEVEL ADJUSTMENT

1. Input the colour bar signal (100% white) to AV4 and select AV4.
2. Setting
   MCP 26 Gamma 0
   MCP 33 DPIC-Level 0
   MCP 34 DC-Tran 0
3. Connect an oscilloscope to pin 5 (R), pin 3 (G) or pin 1 (B) of CN702 on BB board.
4. Initialising ➡ Feature setting
   6 Pict Boost Bypass ON
5. Adjust drive; A and cutoff; B by changing data of followings as shown in the figure.
   MCP 7 R-Drive
   MCP 9 G-Drive
   MCP 10 B-Drive
   MCP 11 R-Cutoff
   MCP 12 G-Cutoff
   MCP 13 B-Cutoff
6. Write the data into memory.

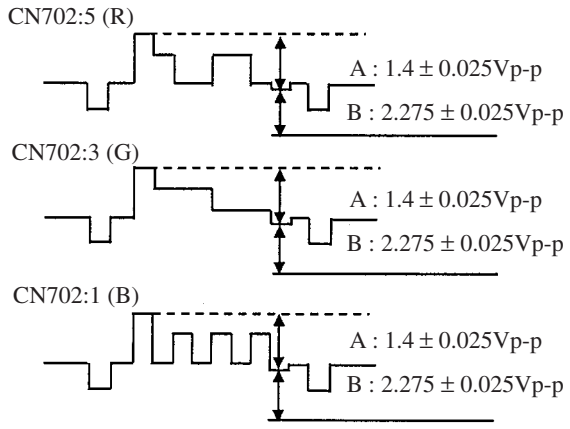


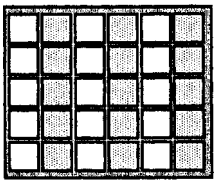
Fig. 3-2

3-5. VERTICAL STRIPE ADJUSTMENT

1. Setting

D9512 TES	2	G-LUT SW	0
D9512 TPN	0	T-PATN SW	1
D9512 TPN	1	T-SIG SEL	0
D9512 TPN	2	PATN DIR	1
D9512 TPN	3	SIG LV DIR	0
D9512 TPN	5	B-LV	15
D9512 TPN	6	G-LV	15
D9512 TPN	7	R-LV	15

2. Check the middle luminance of mono flat field on the screen.
3. R adjustment
1) Set “D9512 TPN 8 T-PATN RGB” to 1.
2) Adjust by changing data of “LCD-DR 3 R EVEN VR” to the vertical stripe (brightness difference every two dots) to minimum.
3) Write the data into memory.
4. G adjustment
1) Set “D9512 TPN 8 T-PATN RGB” to 2.
2) Adjust by changing data of “LCD-DR 8 G EVEN VR” to the vertical stripe (brightness difference every two dots) to minimum.
3) Write the data into memory.
3. B adjustment
1) Set “D9512 TPN 8 T-PATN RGB” to 4.
2) Adjust by changing data of “LCD-DR 3 B EVEN VR” to the vertical stripe (brightness difference every two dots) to minimum.
3) Write the data into memory.



Screen magnify
Should be minimize bright difference every two dots.

Fig. 3-3

3-6. SUB BRIGHT ADJUSTMENT

1. Receive the monoscope signal.
2. Mode
   PICTURE Personal
   SCREEN SIZE Full
3. Adjust by changing data of “D9512 IM 3 SUB BRT” so that the border between 0 IRE and 10 IRE becomes distinct.
4. Write the data into memory.

3-7. SCREEN CENTER ADJUSTMENT

3-7-1. Horlzontal center adjustment
50Hz : PAL SPCB
60Hz : PAP (PAL SPCB for main and sub)
1) Adjust H center by changing data of "IP00C741A 1.OACTHST-L".

3-7-2. Vertical center adjustment
50Hz : PAL SPCB
60Hz : INDEX
(1) 50Hz adjustment
Input PAL SPCB and adjust V center by changing data of "IP00C741A 3. SYRDLY".

(2) 60Hz adjustment

* Input NTSC MONOSCO. Adjust "3. SYRDLY" to find out the value terrible picture flicker occures.
Note the value for 60Hz adjustment.

1) Receive RF and change picture to INDEX

2) Adjust V center by "3. SYRDLY".
Be sure that ± 1 step area of the noted value is prohibited.

3-8. TEST-TEST MODE

1.1.3 Test-Test-Commands

Entering the TT mode method :

Commander : Press test button twice.

The diagnosis menu can be displayed by these methods :

TT mode : Press 33

Service Menu : Monitoring ⟶ Error Monitor or LCD-Engine Error Menu

For correction of any wrong input (first digit.) by mistake these methods are possible :

Press“- -”

Press“0”

Press test button

The test-Test Mode can be left by these methods :

Press“0” twice.

Press TV button

Press standby button

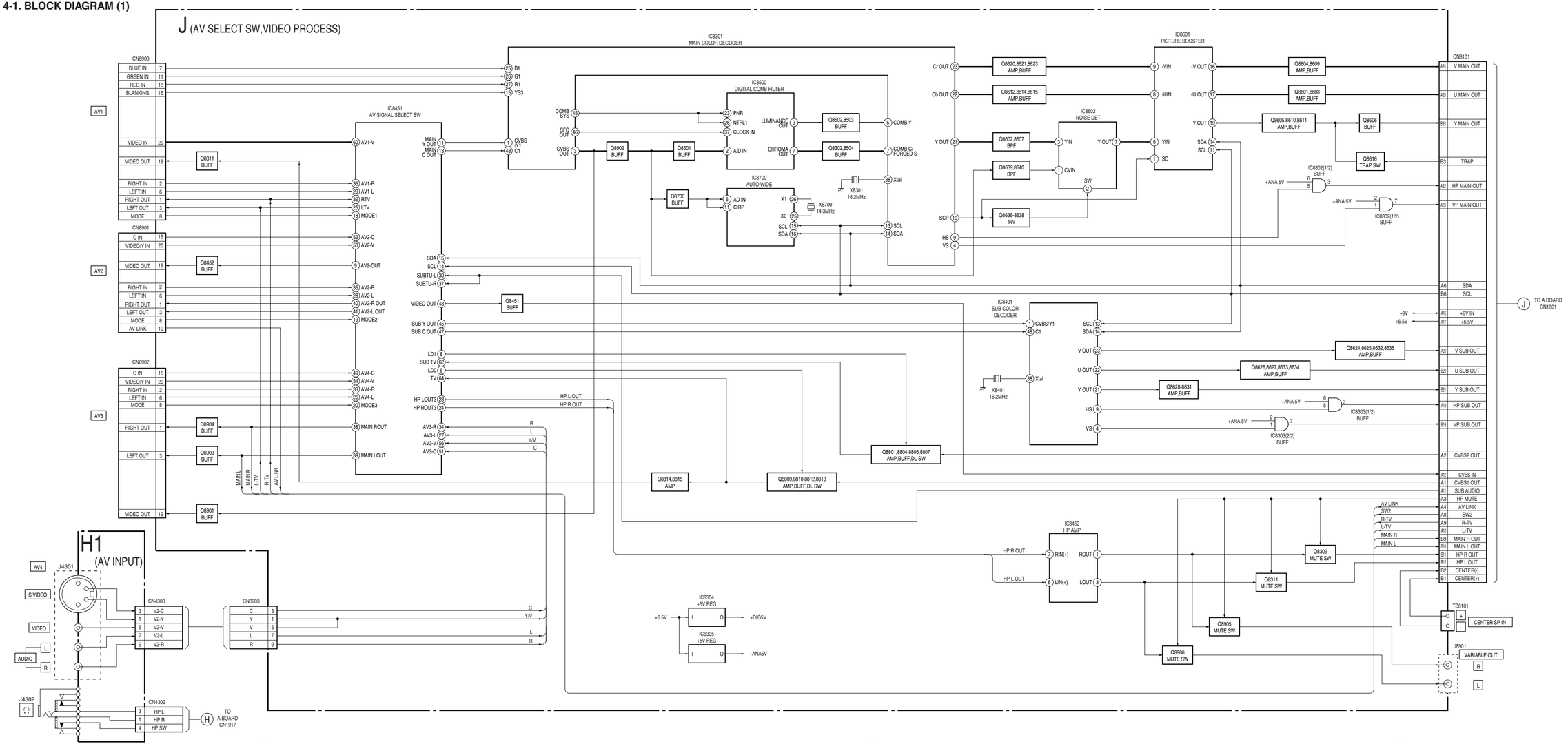
00	TT mode off
01	picture maximum
02	picture minimum
03	volume = 30% (speaker and headphone)
04	volume = 50% (speaker and headphone)
05	volume = 65% (speaker and headphone)
06	volume = 80% (speaker and headphone)
07	Ageing Mode This TT mode is stored in NVM, after power shut down TV starts again in Ageing mode. Ageing Mode can be left by pressing TV button. Volume is set to minimum.
08	Shipping Conditions Note : The u-controller checks all possible IC’s and generate an internal list. This list is the base of the error check procedure. Production mode = off Ignore Errors = off Errors = cancelled Standby = off Parental lock = off Ageing white = off Flash = erased Language = English Country = off AV1 = Normal, “AV1” AV2 = Normal, “AV2” AV3 = Normal, “AV3” AV4 = Normal, “AV4” AV In Main = AV1 AV In Sub = AV1 AV2 Out = TV Main program = 1 Sub program = 2

	Picture Mode = Live AI = on Noise reduction = AUTO Colour Tone = Normal volume = 35% (speaker and headphone) Space sound = off Loudness = off All analogue values = reset (picture and sound) Format = Smart Sound mode = FLAT
09	Enter the projector engine menu
10	No action
11	Sub picture adjustment
12	Sub colour adjustment
13	Display of software version and TV set configuration
16	Picture level 50%
17	Audio mute on
19	Sub brightness adjustment
20	No action
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	No action
32	Main H POS adjustment Horizontal center adjustment for MID-X input.Adjustment is done with left and right joystick button, released by “TV” or “OK” button
33	Error monitor
35	CRT 4:3<_> 16:9, display TV status
39	No action (AE2 dealer commander)
40	No action
41	Screen Mode Check
	TV set is toggling automatically screen modes (4:3,14:9,zoom, zoom upwards)
46	Reserved for dealer commander
47	Reinitialize NVM (program 99)
48	Set NVM as non virgin:
49	Set NVM as virgin: After next power on the complete NVM (except channel tables) are overwritten.
50	No action
59	Copy external NVM on service connector to internal NVM
60	No action
61	Service Mode
62	Productions Mode
63	Copy the picture reset from ROM into the picture reset location of NVM.
64	Copy the actual adj. Picture data from NVM into the picture reset location of NVM.
65	Reset error codes
68	Ignore errors on
69	Ignore errors off
70	No action
71	Copy default data of PANORAMA/external PLL/MID/ MID-X from ROM into NVM.
73	Clear all programs except program 1-5 and all station labels
77	Picture Booster check
78	No video blanking
80	No action
81	Smart Link test signal on AV2Pin10
83	Balance left/right
84	Switch Main/Center
85	Special Picture mode (set personal pict. Mode, set brightness to 50%, set picture to 80%)
87	Personal ID reset Personal ID is rest and initialized with “-” (program99)
88	Parental lock off
89	OSD mute on/off
90	No action
94	INDEX mode test command, released by OK or 00.
99	Speaker check, released by OK or 00.

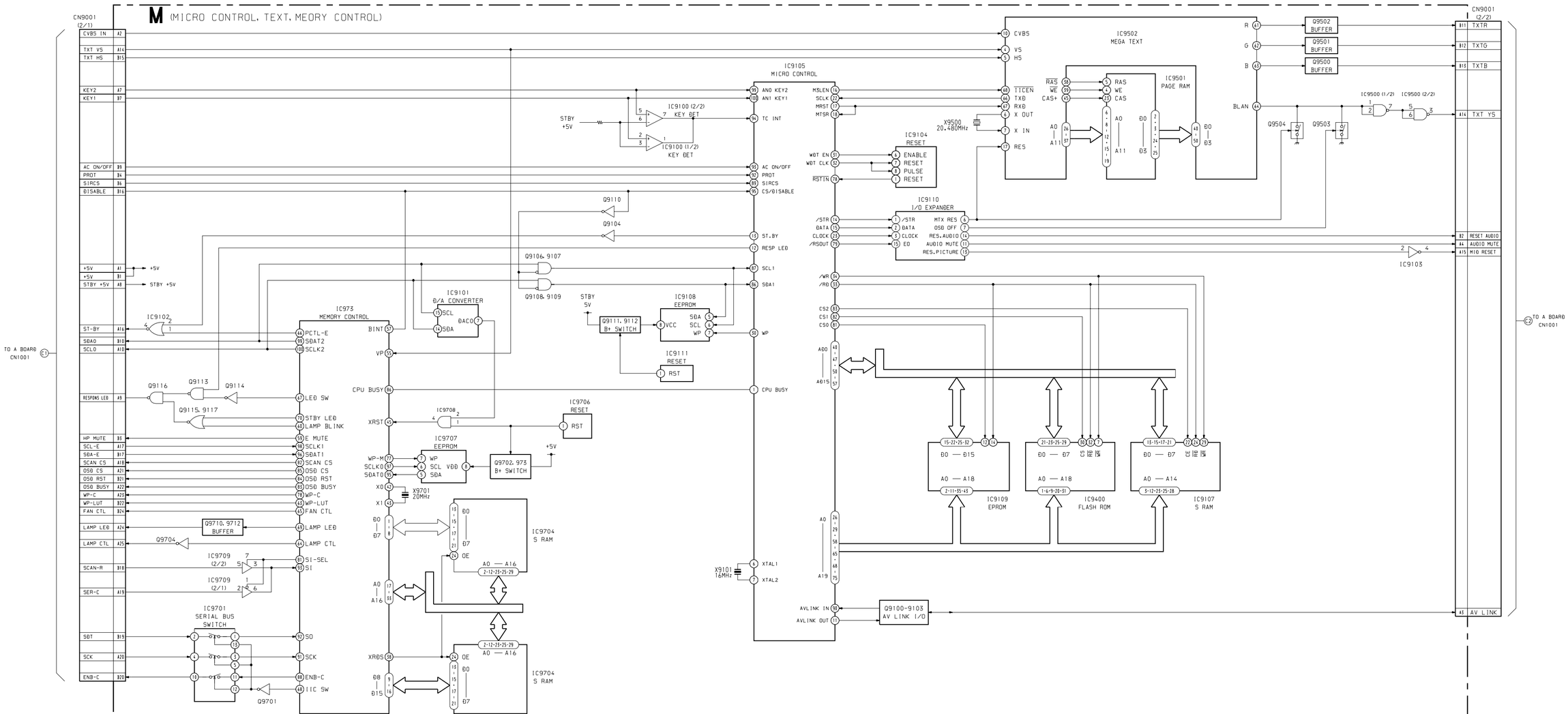
MEMO

SECTION 4
DIAGRAMS

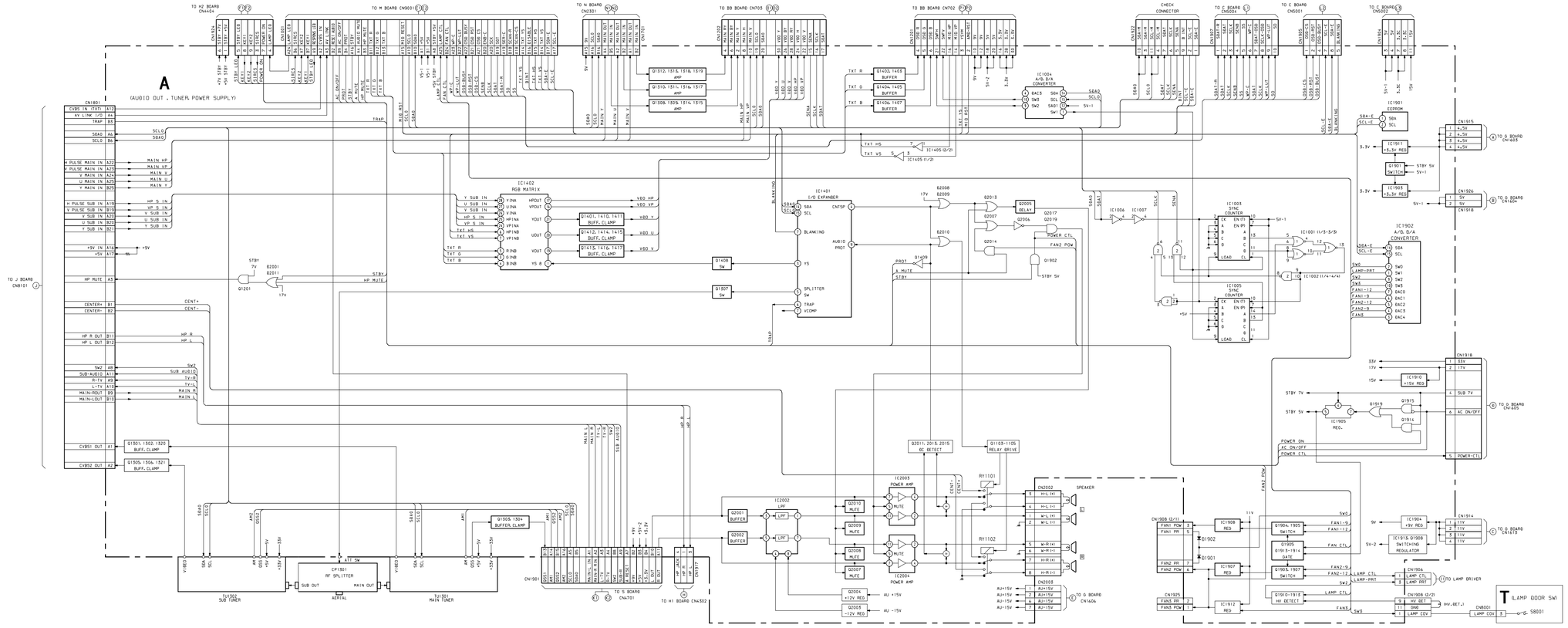
4-1. BLOCK DIAGRAM (1)



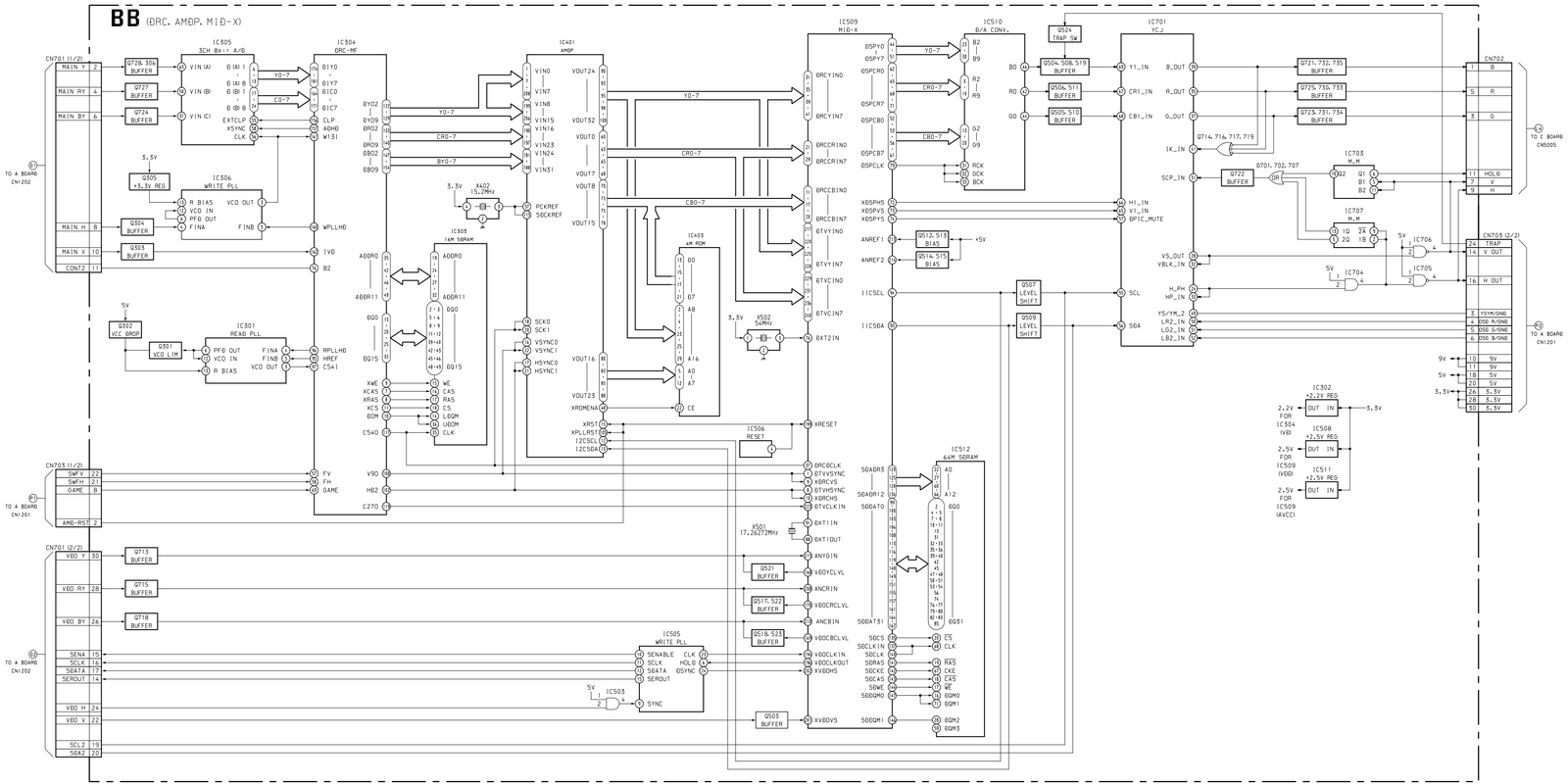
BLOCK DIAGRAM (2)



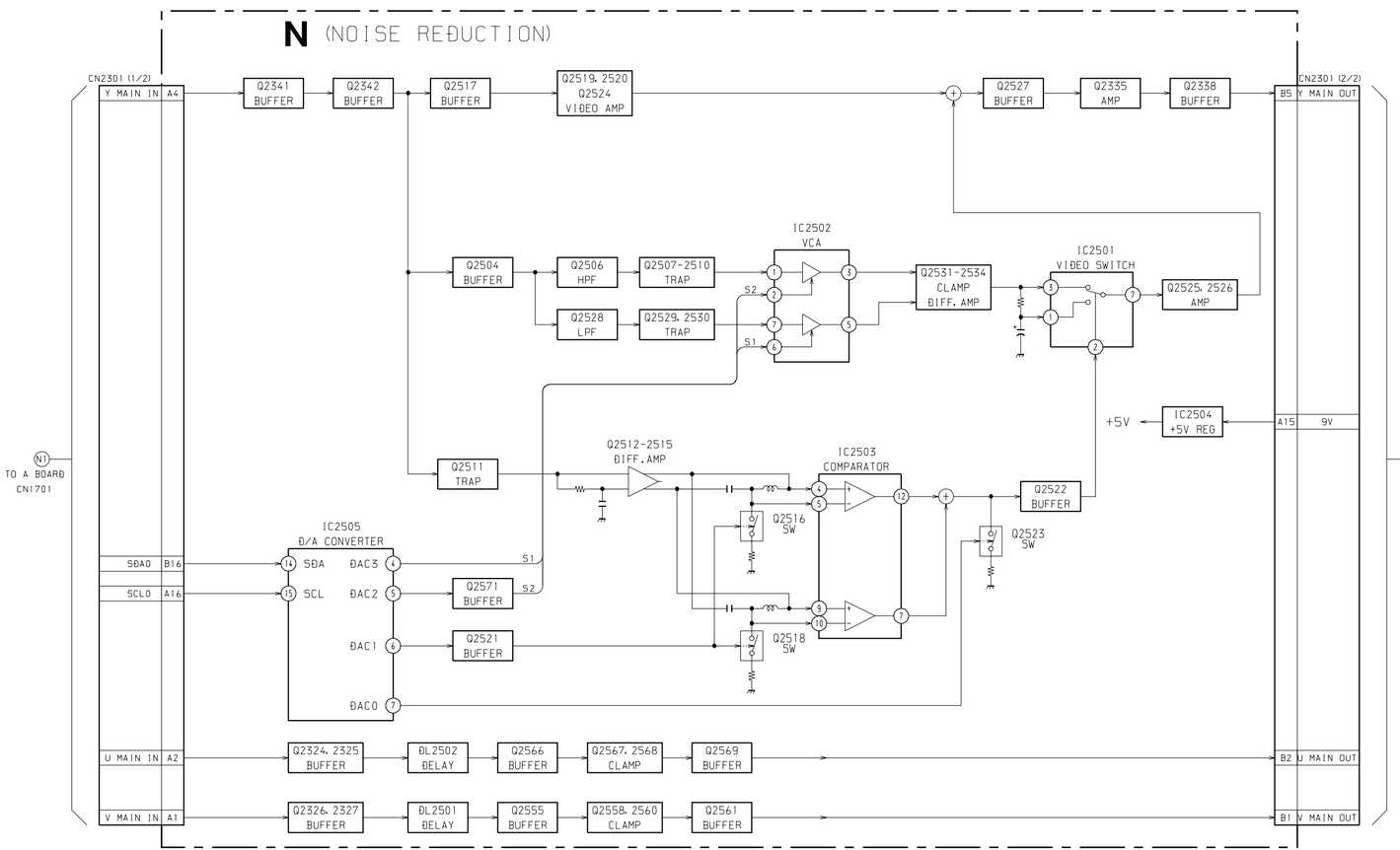
BLOCK DIAGRAM (3)

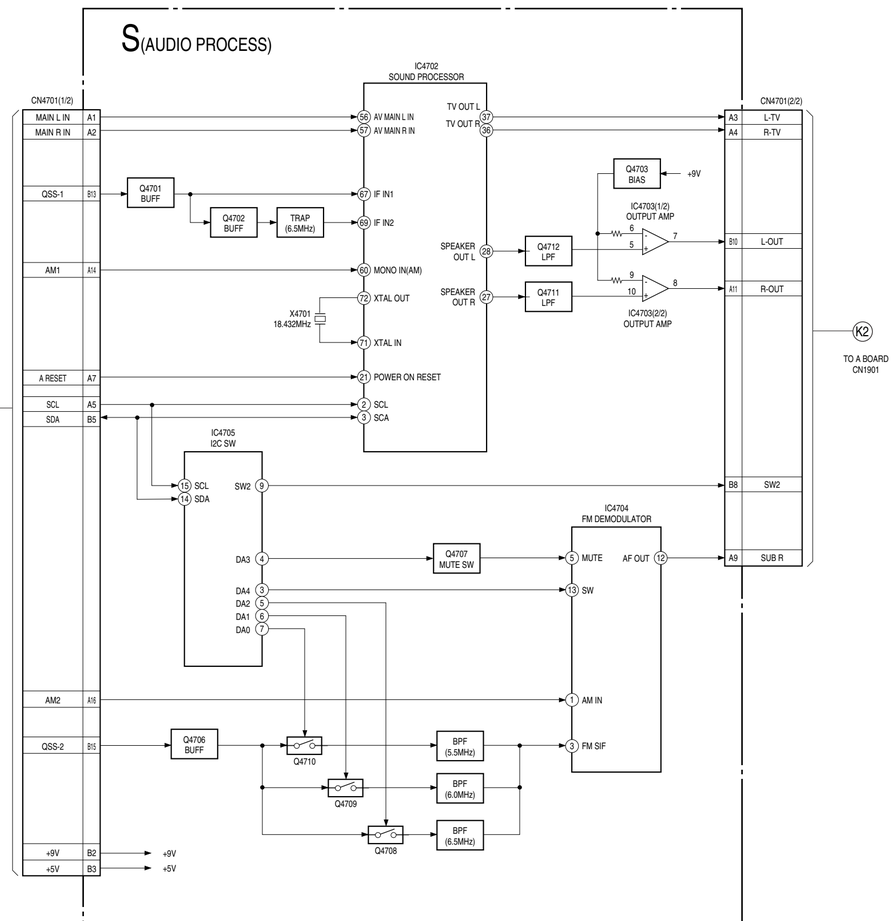


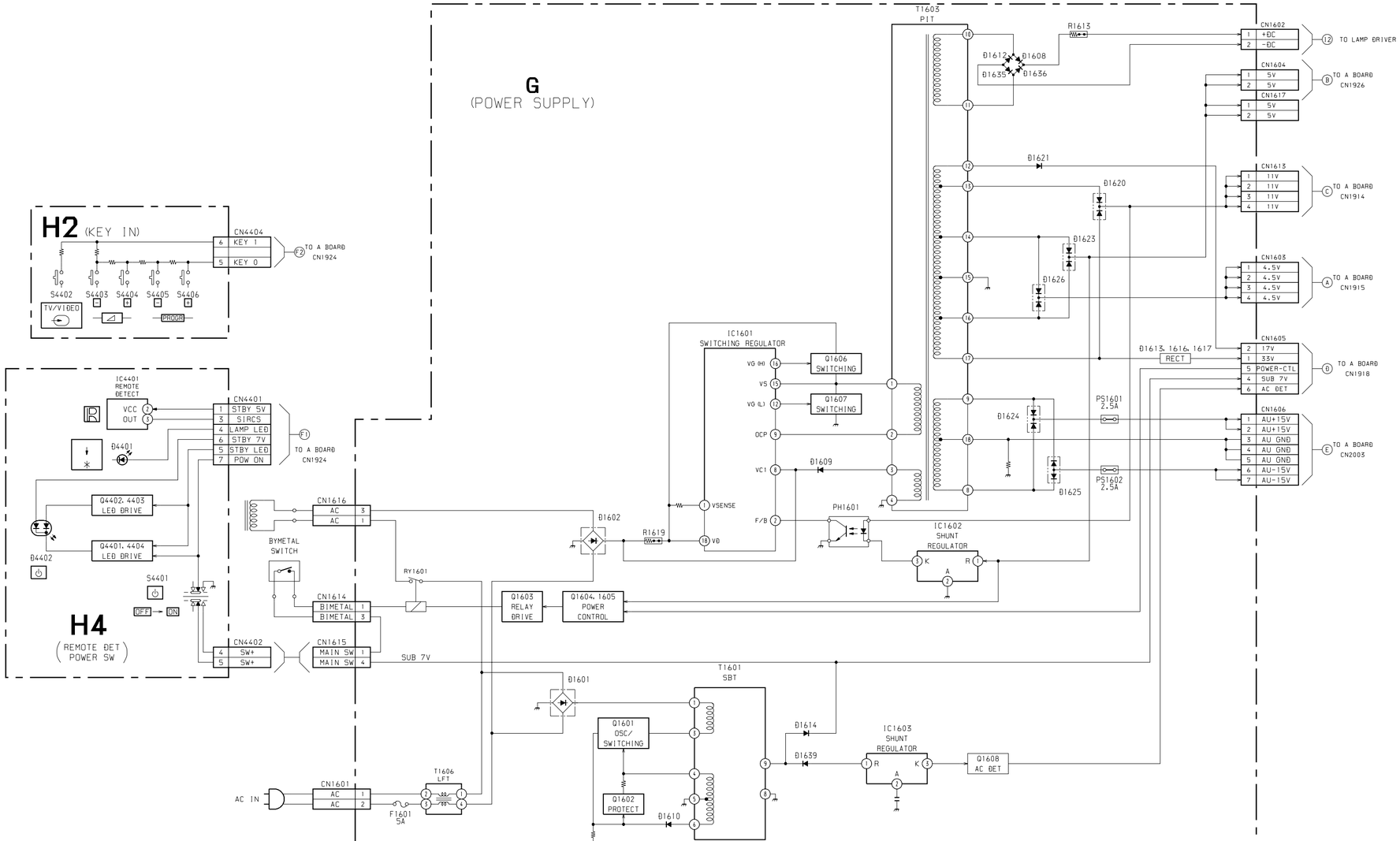
BLOCK DIAGRAM (4)

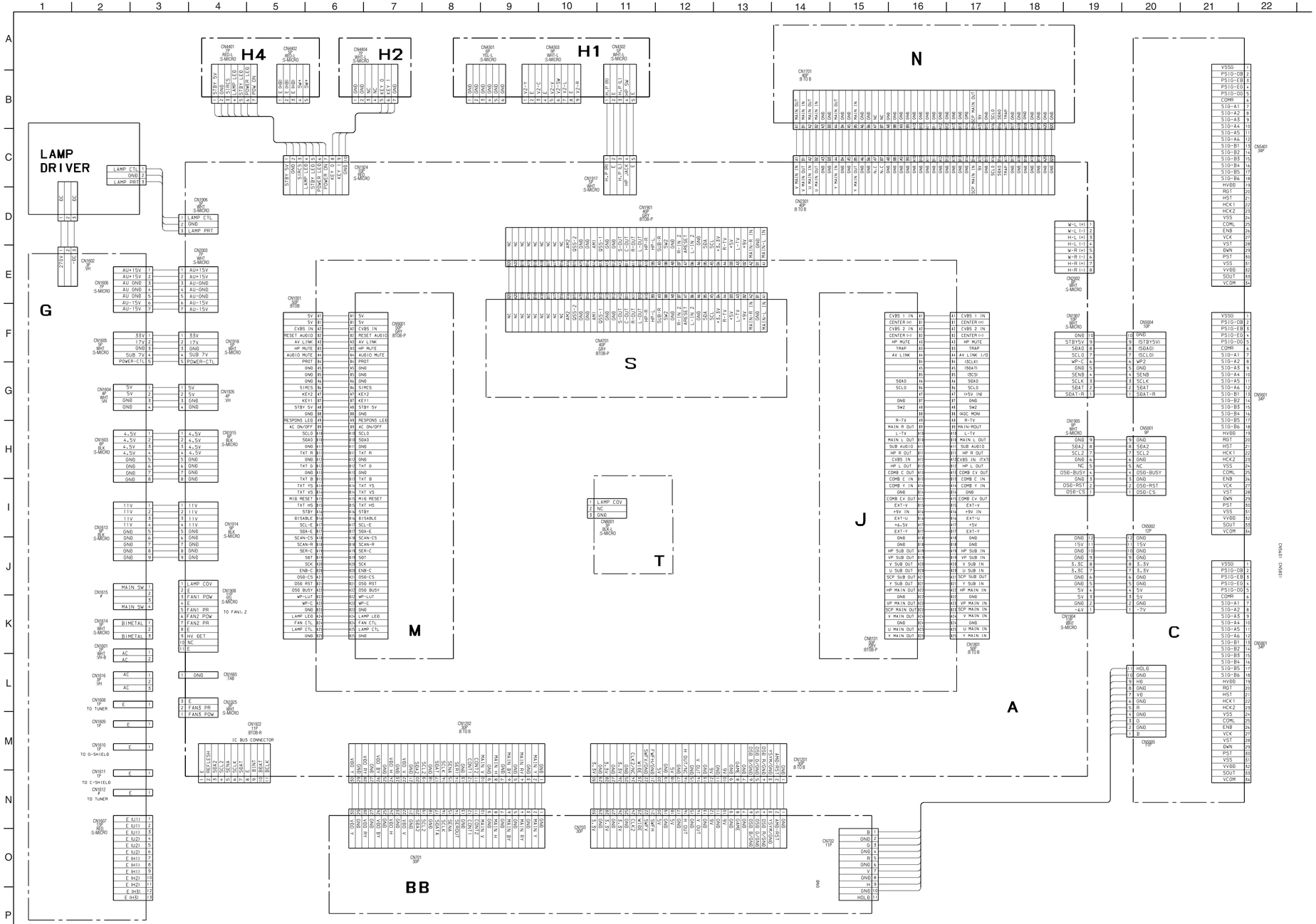


BLOCK DIAGRAM (5) (6)

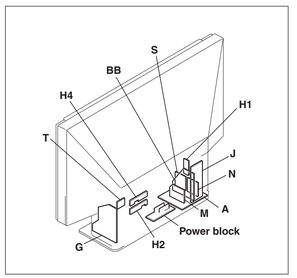





G
(POWER SUPPLY)
H2 (KEY IN)
CN4404
KEY 1
KEY 0
TO A BOARD CN1924
S4402
S4403
S4404
S4405
S4406
TV/VIDEO
PROGR
H4
(REMOTE DET POWER SW)
IC4401 REMOTE DETECT
VCC
OUT
CN4401
STBY 5V
SIRCS
LAMP LED
STBY 7V
STBY LED
POW ON
D4401
Q4402, 4403 LED DRIVE
Q4401, 4404 LED DRIVE
D4402
S4401
OFF
ON
CN4402
SW+
SW+
CN1616
AC
AC
BYMETAL SWITCH
CN1614
BIMETAL
BIMETAL
RY1601
CN1615
MAIN SW
MAIN SW
SUB 7V
CN1601
AC
AC
AC IN
F1601 5A
T1606 LFT
D1601
T1601 SBT
Q1601 OSC/ SWITCHING
Q1602 PROTECT
D1610
D1614
D1639
IC1603 SHUNT REGULATOR
Q1608 AC DET
D1602
R1619
IC1601 SWITCHING REGULATOR
VG (H)
VS
VG (L)
OCP
VCC
F/B
VSENSE
VD
Q1606 SWITCHING
Q1607 SWITCHING
D1609
PH1601
IC1602 SHUNT REGULATOR
Q1603 RELAY DRIVE
Q1604, 1605 POWER CONTROL
T1603 PIT
R1613
D1612
D1608
D1635
D1636
D1621
D1620
D1623
D1626
D1624
D1625
PS1601 2.5A
PS1602 2.5A
D1613, 1616, 1617
RECT
CN1602
+DC
-DC
TO LAMP DRIVER
CN1604
5V
5V
CN1617
5V
5V
TO A BOARD CN1926
CN1613
11V
11V
11V
11V
TO A BOARD CN1914
CN1603
4.5V
4.5V
4.5V
4.5V
TO A BOARD CN1915
CN1605
17V
33V
POWER-CTL
SUB 7V
AC DET
TO A BOARD CN1918
CN1606
AU+15V
AU+15V
AU GND
AU GND
AU GND
AU-15V
AU-15V
TO A BOARD CN2003



4-3. CIRCUIT BOARDS LOCATION



4-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- Capacitors without voltage indication are all 50V.
- All resistors are in ohms.
  kΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

  Pitch : 5mm
  Rating electrical power : 1/4 W

- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- When replacing the part in below table, be sure to perform the related adjustment.
- Readings are taken with a color-bar signal input.
  No mark: PAL
  < >: SECAM
  ( ): NTSC 3.58
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  *: Measurement impossibility.
- : B+ line
- : B– line
  (Actual measured value may be different)
- : signal path
- Circled numbers are waveform references.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

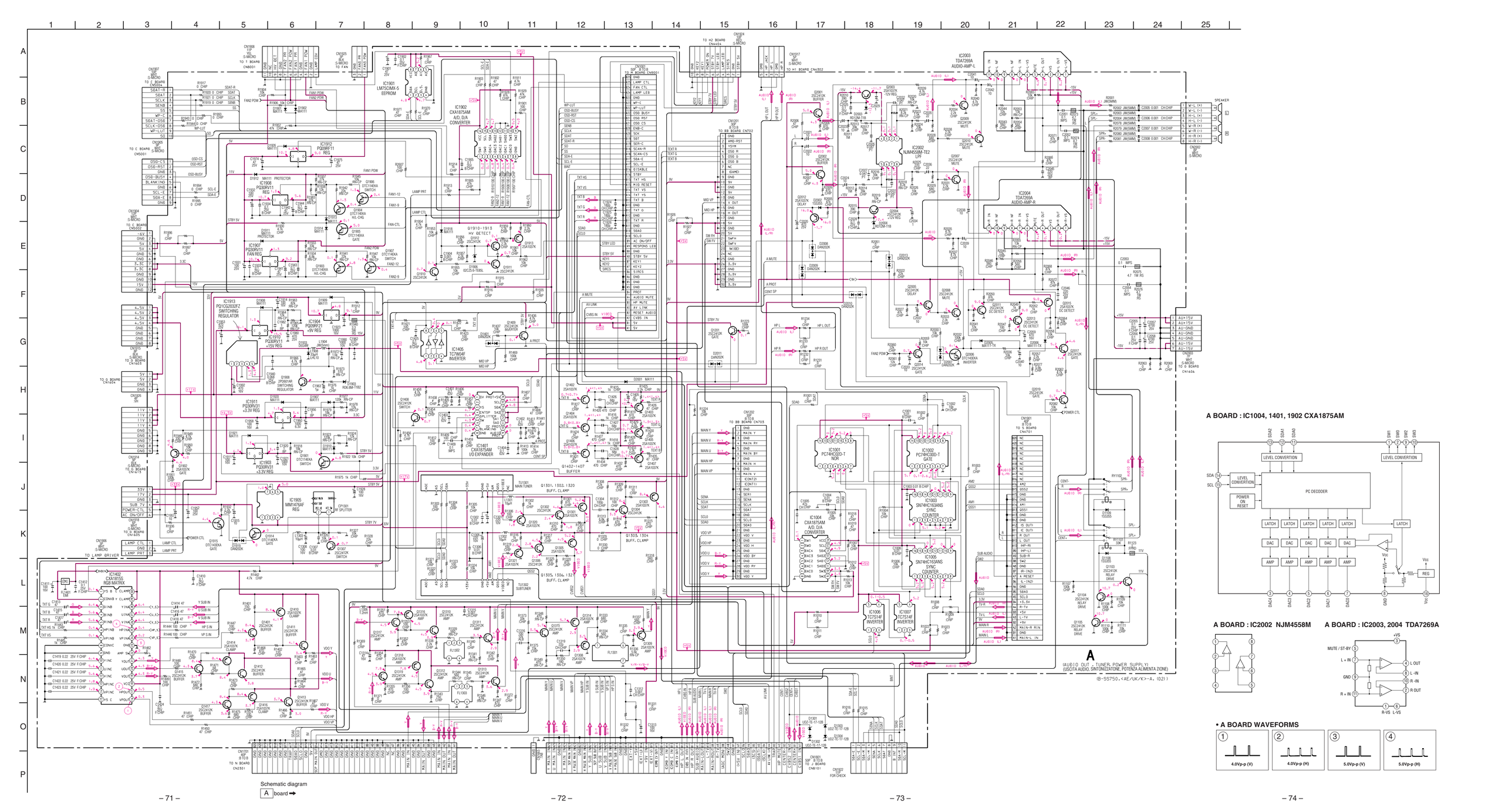
**Note : The components identified by shading and mark ⚠ are circuit for safety.
Replace only with part number specified.**

Terminal name of semiconductors in silk screen printed circuit (✲)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base / Emitter	
②	Transistor	—	Collector / Base / Emitter	
③	Diode		Cathode / Anode	
④	Diode	T	Cathode / Anode (NC)	
⑤	Diode	—	Cathode / Anode (NC)	
⑥	Diode	T	Common Anode / Cathode	
⑦	Diode	—	Common Anode / Cathode	
⑧	Diode	T	Common Anode / Anode	
⑨	Diode	—	Common Anode / Anode	
⑩	Diode	T	Common Cathode / Cathode	
⑪	Diode	—	Common Cathode / Cathode	
⑫	Diode	‖	Anode & Cathode / Anode / Cathode	
⑬	Transistor (FET)	‖	Drain / Source / Gate	
⑭	Transistor (FET)	⊢	Drain / Source / Gate	
–	Discrete semiconductor			

(Chip semiconductors that are not actually used are included.)

Ver.1.5



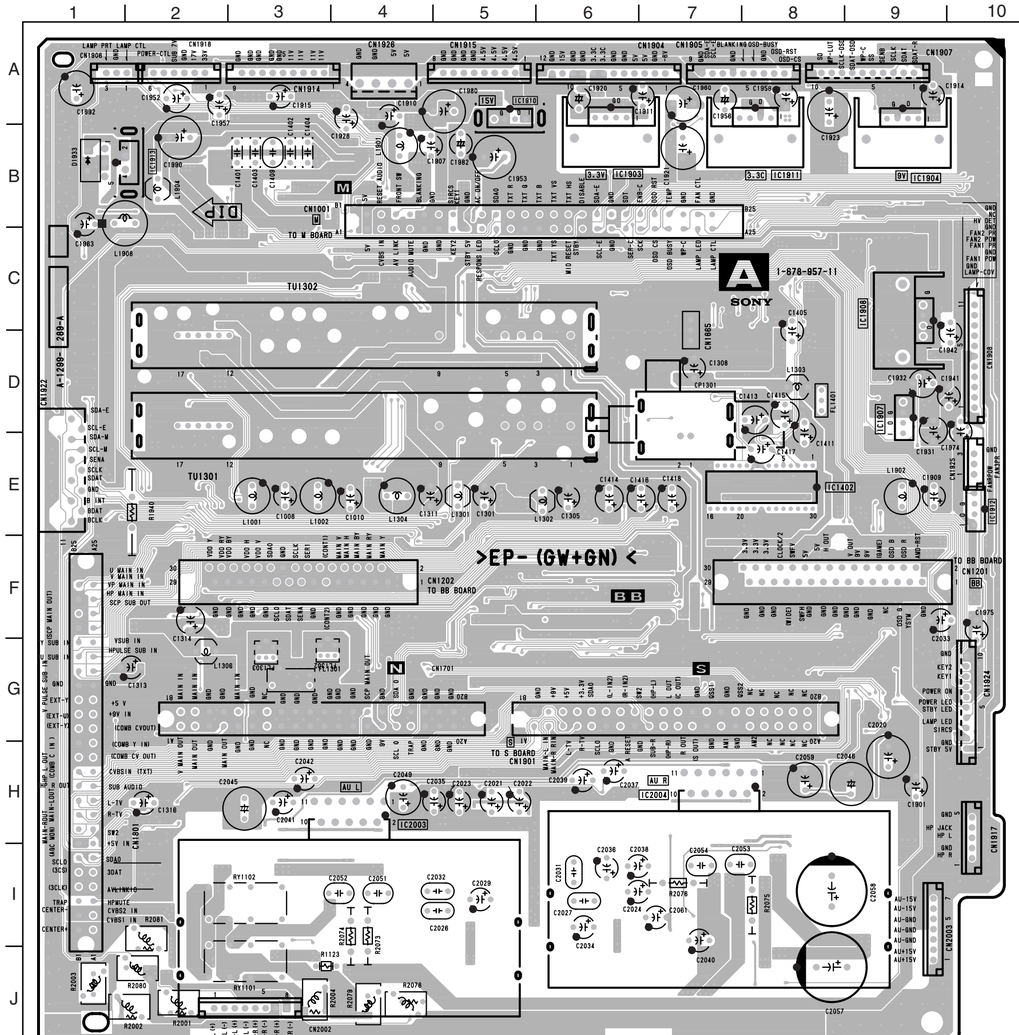
Schematic diagram
A board ➡

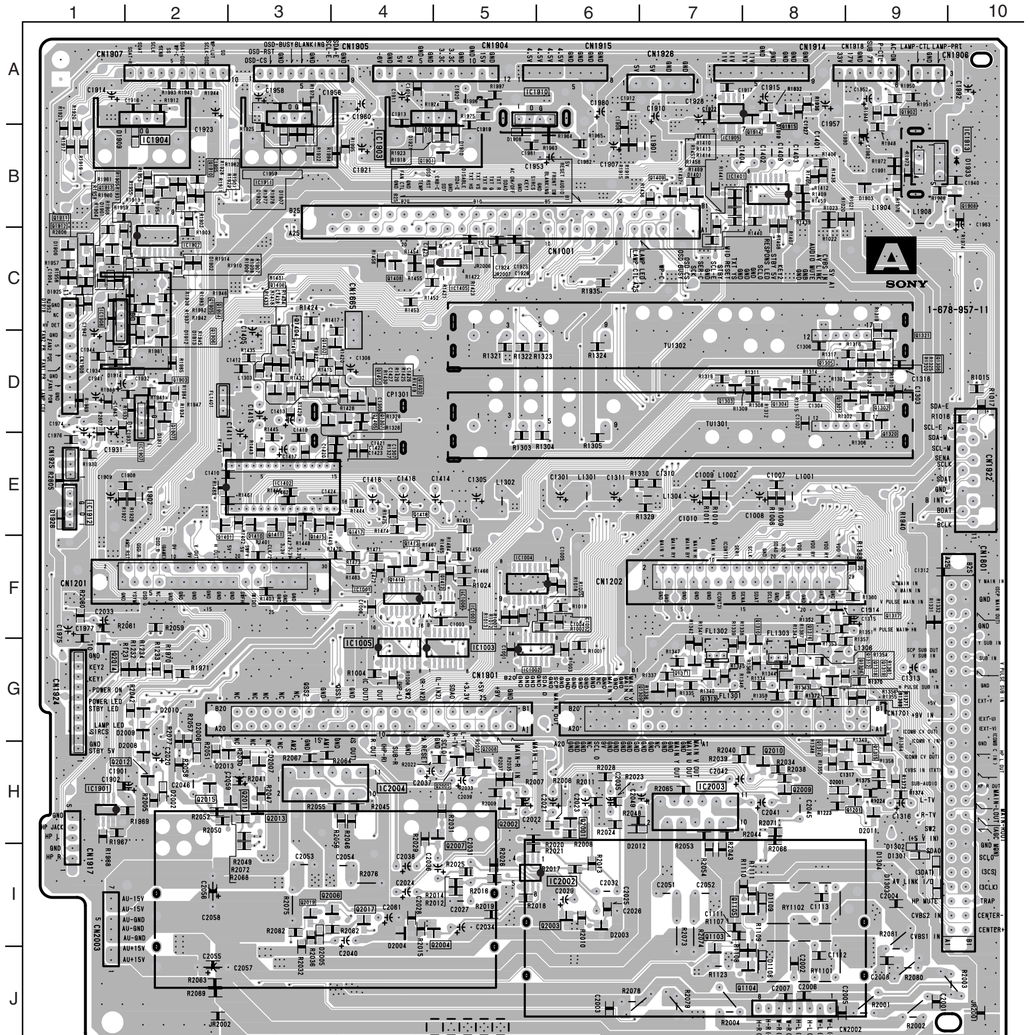
A BOARD : IC1004, 1401, 1902 CXA1875AM

A BOARD : IC2002 NJM4558M

A BOARD : IC2003, 2004 TDA7269A

• A BOARD WAVEFORMS





A BOARD

DIODE

	L	R	*
D1108		J-8	③
D1109		J-8	③
D1301		I-9	③
D1302		I-9	③
D1303		I-9	③
D1304		I-9	③
D1401		B-7	⑥
D1901		B-1	③
D1902		C-2	③
D1903		B-9	④
D1906		C-1	④
D1907		B-3	③
D1908		B-5	③
D1909		B-2	③
D1910		B-5	③
D1911		C-2	③
D1912		D-2	③
D1913		D-2	③
D1914		D-1	③
D1918		C-1	③
D1919		A-8	⑥
D1920		B-3	③
D1921		B-4	③
D1926		E-1	③
D1933	B-1	B-10	-
D2001		H-8	③
D2002		H-2	③
D2003		I-6	④
D2004		I-4	④
D2005		I-3	③
D2006		H-2	③
D2007		H-3	⑥
D2008		H-2	⑥
D2009		G-2	⑥
D2010		G-2	⑥
D2011		H-3	⑥
D2013		H-2	⑥

TRANSISTOR

	L	R	*
Q501		D-2	①
Q1103		I-7	①
Q1104		J-8	①
Q1105		I-7	①
Q1201		H-9	①
Q1301		D-8	①
Q1302		D-9	①
Q1303		D-7	①
Q1304		D-8	①
Q1305		D-8	①
Q1306		D-7	①
Q1307		D-4	①
Q1308		G-9	①
Q1309		G-7	①
Q1310		F-8	①
Q1311		G-7	①
Q1312		G-9	①
Q1313		G-7	①
Q1314		H-8	①
Q1315		H-9	①
Q1316		G-8	①
Q1317		F-9	①
Q1318		G-9	①
Q1319		G-9	①
Q1320		D-9	①
Q1321		D-9	①
Q1401		E-1	①
Q1402		D-3	①
Q1403		D-4	①
Q1404		D-3	①
Q1405		D-4	①
Q1406		C-3	①
Q1407		D-4	①
Q1408		C-4	①
Q1409		B-7	①
Q1410		E-3	①
Q1411		E-3	①
Q1412		G-7	①
Q1413		F-4	①
Q1414		F-4	①
Q1415		E-3	①
Q1416		E-4	①
Q1417		E-4	①
Q1901		B-4	①
Q1902		A-9	①
Q1903		D-2	①
Q1904		C-2	①
Q1905		C-2	①
Q1906		D-2	①
Q1907		D-2	①
Q1908		B-10	①
Q1910		B-2	①
Q1911		B-1	①
Q1912		B-1	①
Q1913		B-1	①
Q1914		A-8	①
Q1915		A-8	①
Q2001		H-6	①
Q2002		H-5	①
Q2003		I-6	①
Q2004		I-5	①
Q2005		H-5	①
Q2006		I-3	①
Q2007		H-5	①
Q2008		H-5	①
Q2009		H-8	①
Q2010		H-8	①
Q2011		H-3	①
Q2012		H-2	①
Q2013		H-3	①
Q2014		G-1	①
Q2015		H-2	①
Q2017		I-4	①
Q2019		I-3	①

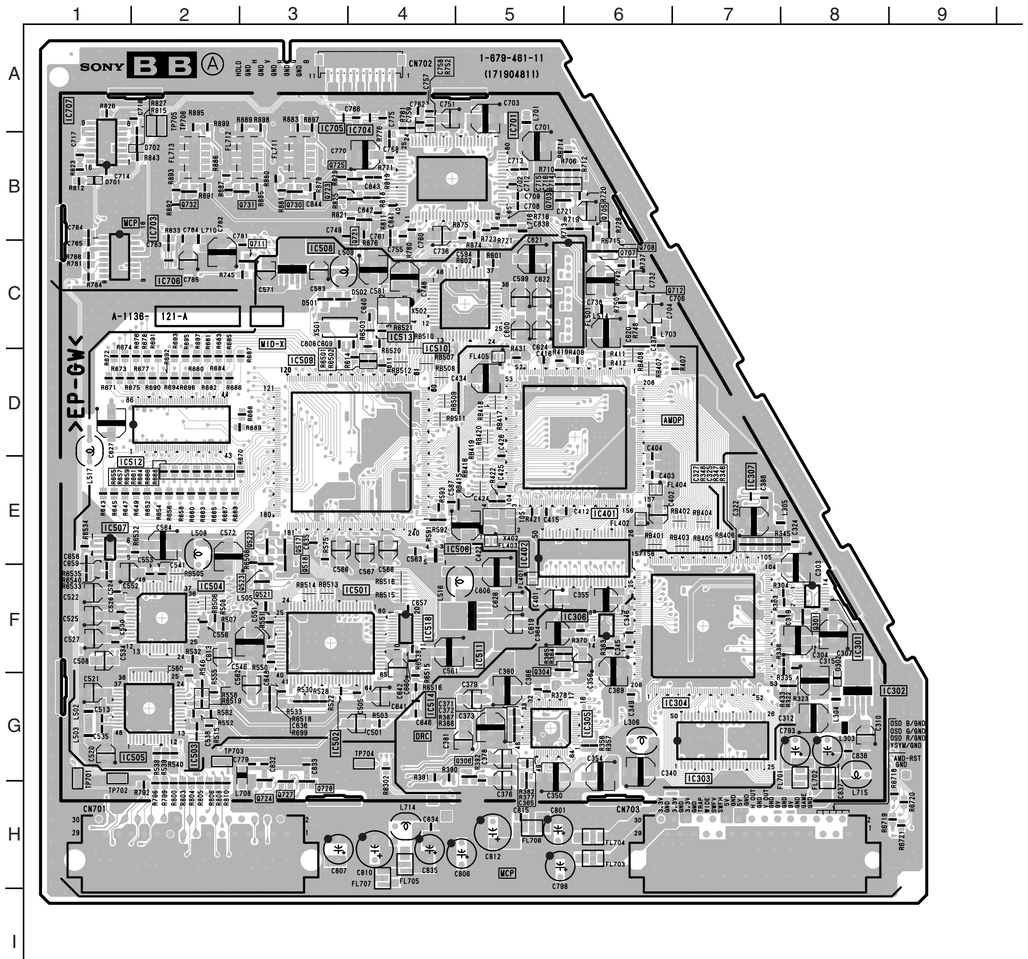
IC

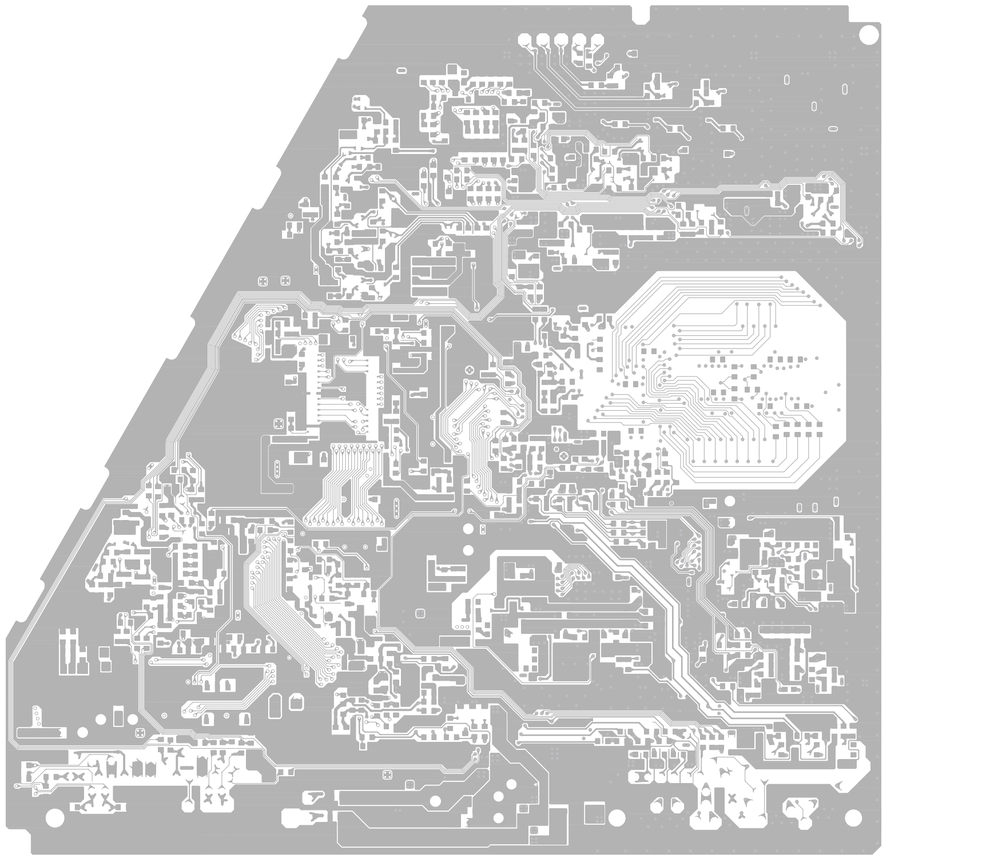
	L	R
IC501	E-10	E-1
IC1001		F-4
IC1002		G-5
IC1003		G-5
IC1004		F-5
IC1005		G-4
IC1006		F-5
IC1007		F-5
IC1401		B-8
IC1402	E-8	E-3
IC1405		C-5
IC1901		H-1
IC1902		C-2
IC1903	B-6	B-4
IC1904	B-9	B-2
IC1905		B-7
IC1907	D-9	E-2
IC1908	C-9	C-1
IC1910	A-5	A-5
IC1911	B-8	B-3
IC1912	E-10	E-1
IC1913	B-2	B-10
IC2002		I-6
IC2003	H-4	H-7
IC2004	H-7	H-4

L ; component side
R ; conductor side

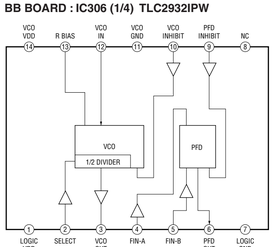
BB (1/4) [DRC-MF, A/D]

– BB Board –

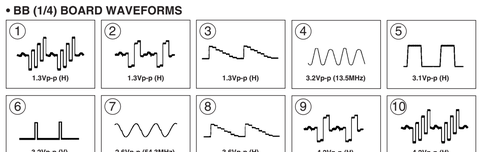


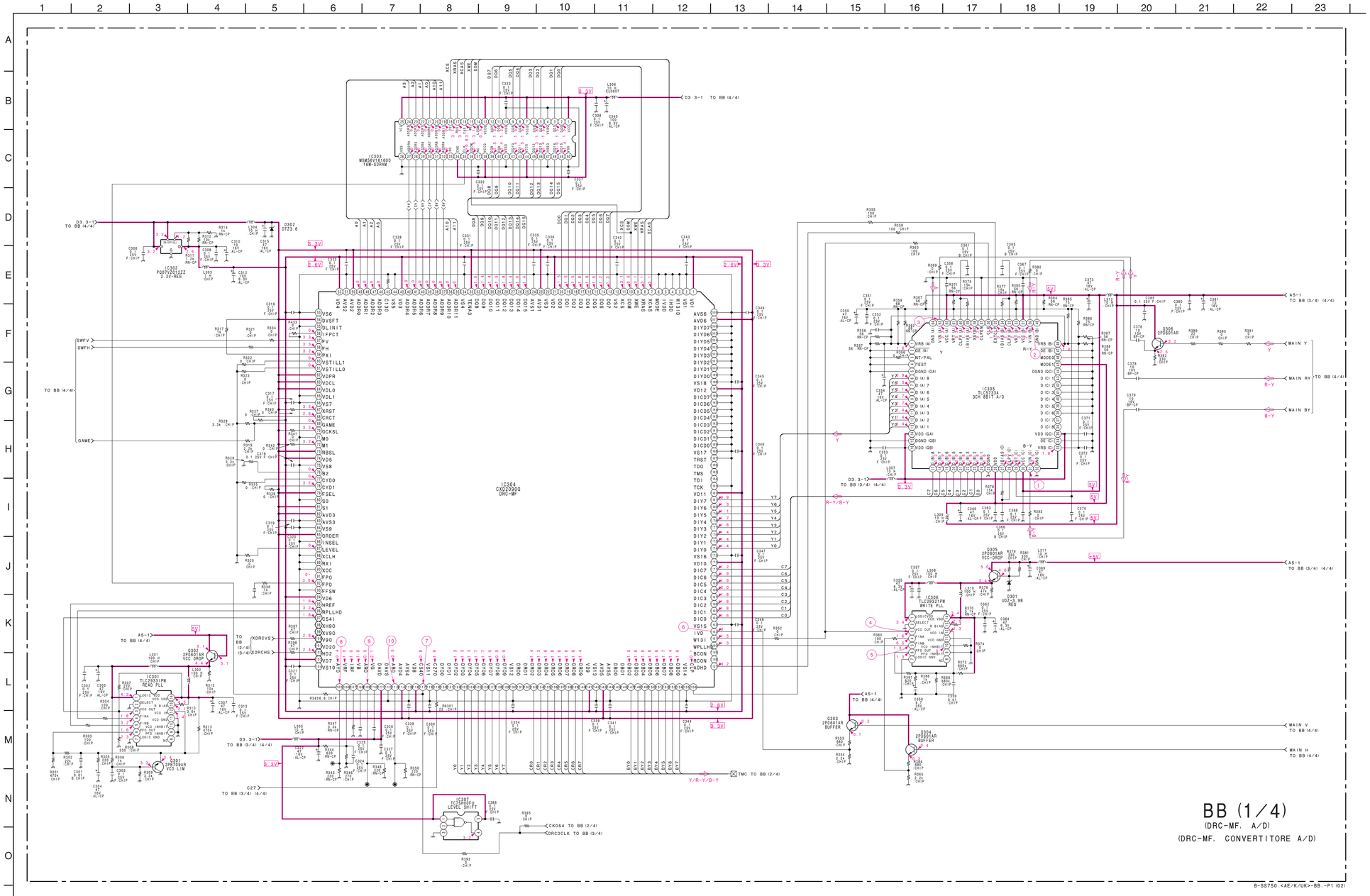


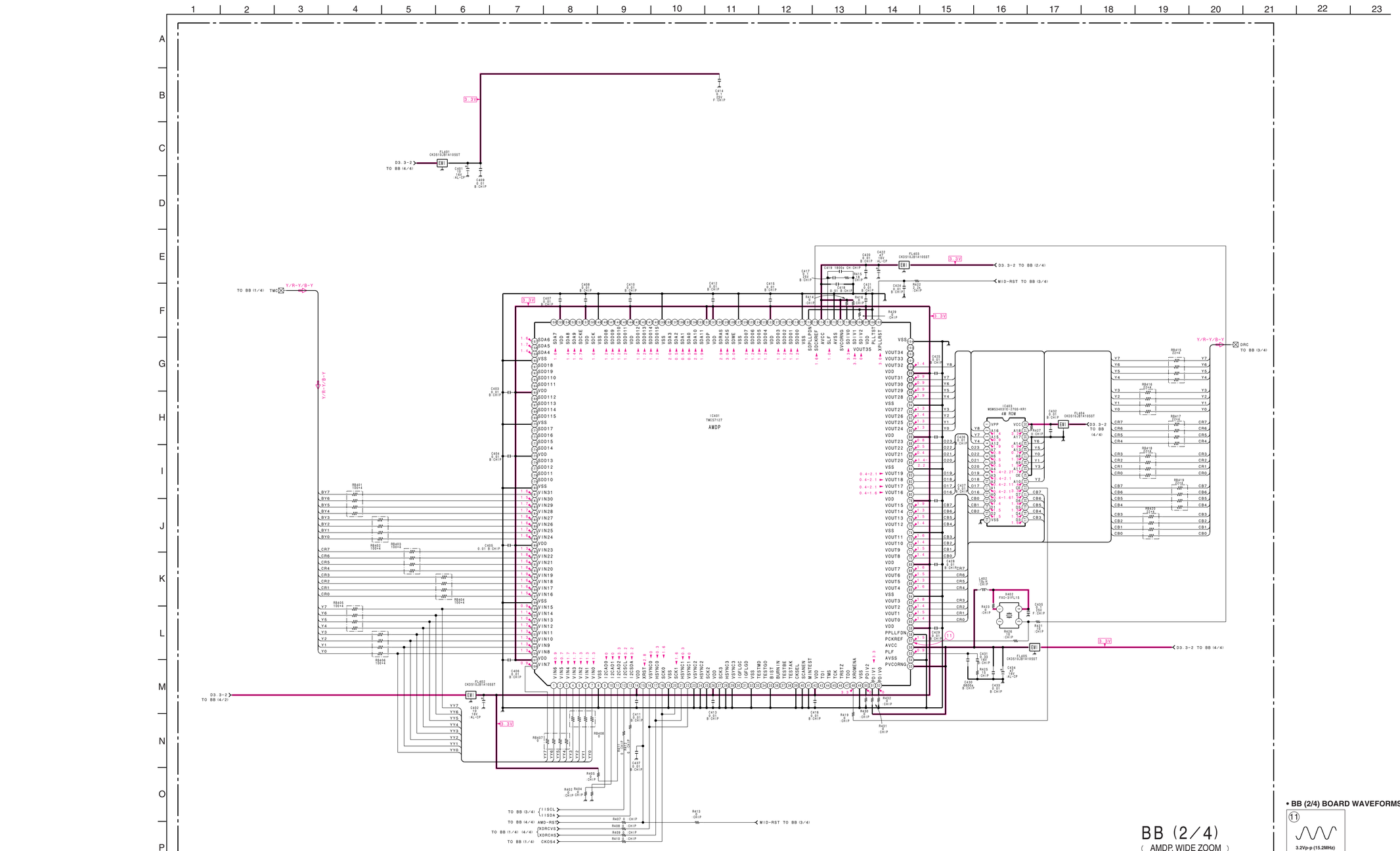
BB BOARD : IC306 (1/4) TLC2932IPW



• BB (1/4) BOARD WAVEFORMS







BB (2/4)

(AMDP, WIDE ZOOM)

• BB (2/4) BOARD WAVEFORMS

11

3.2Vp-p (15.2MHz)

B-SS750 <AE/K/UK>-BB -P2 (02)

Schematic diagram
BB (1/4) board

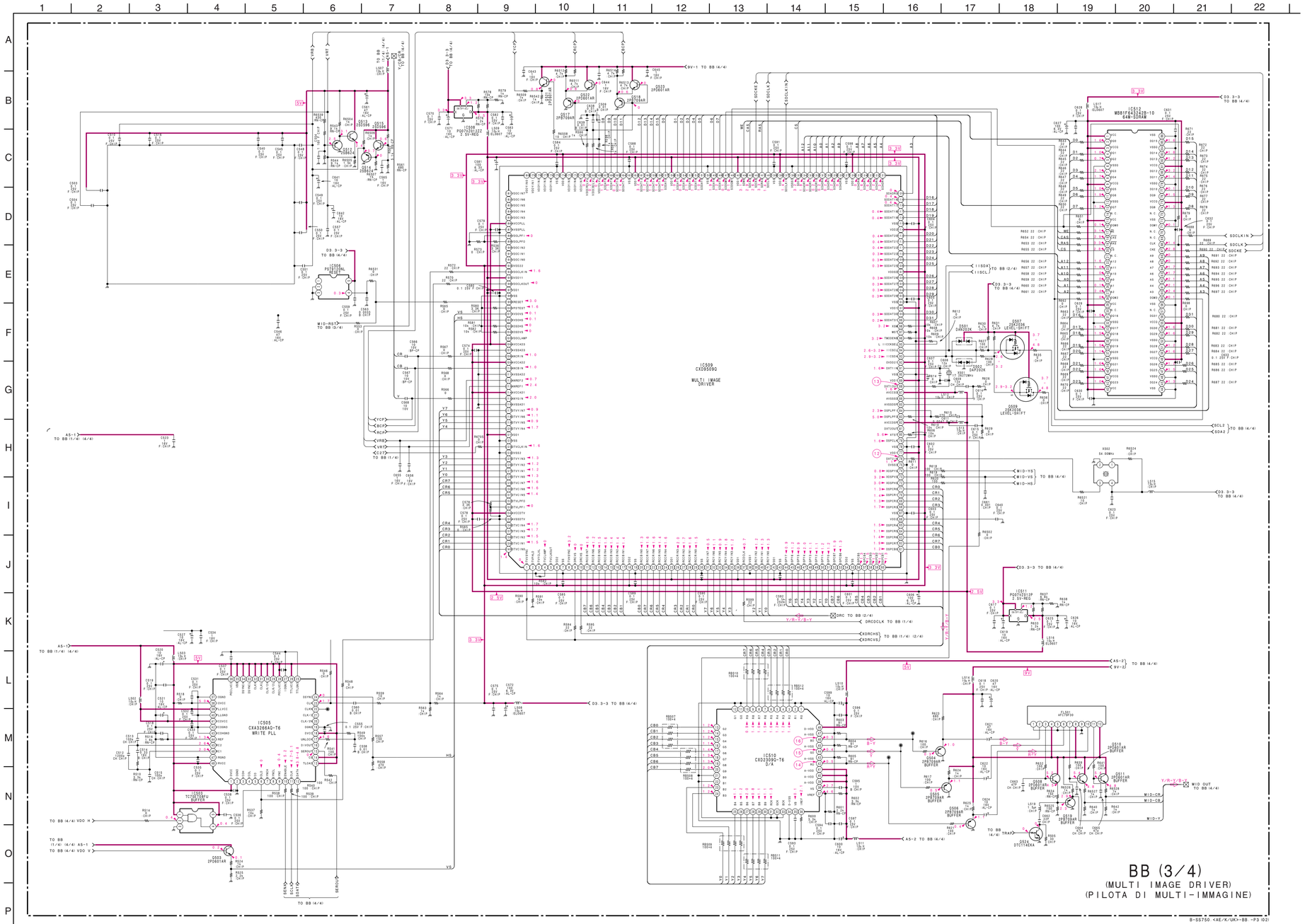
– 85 –

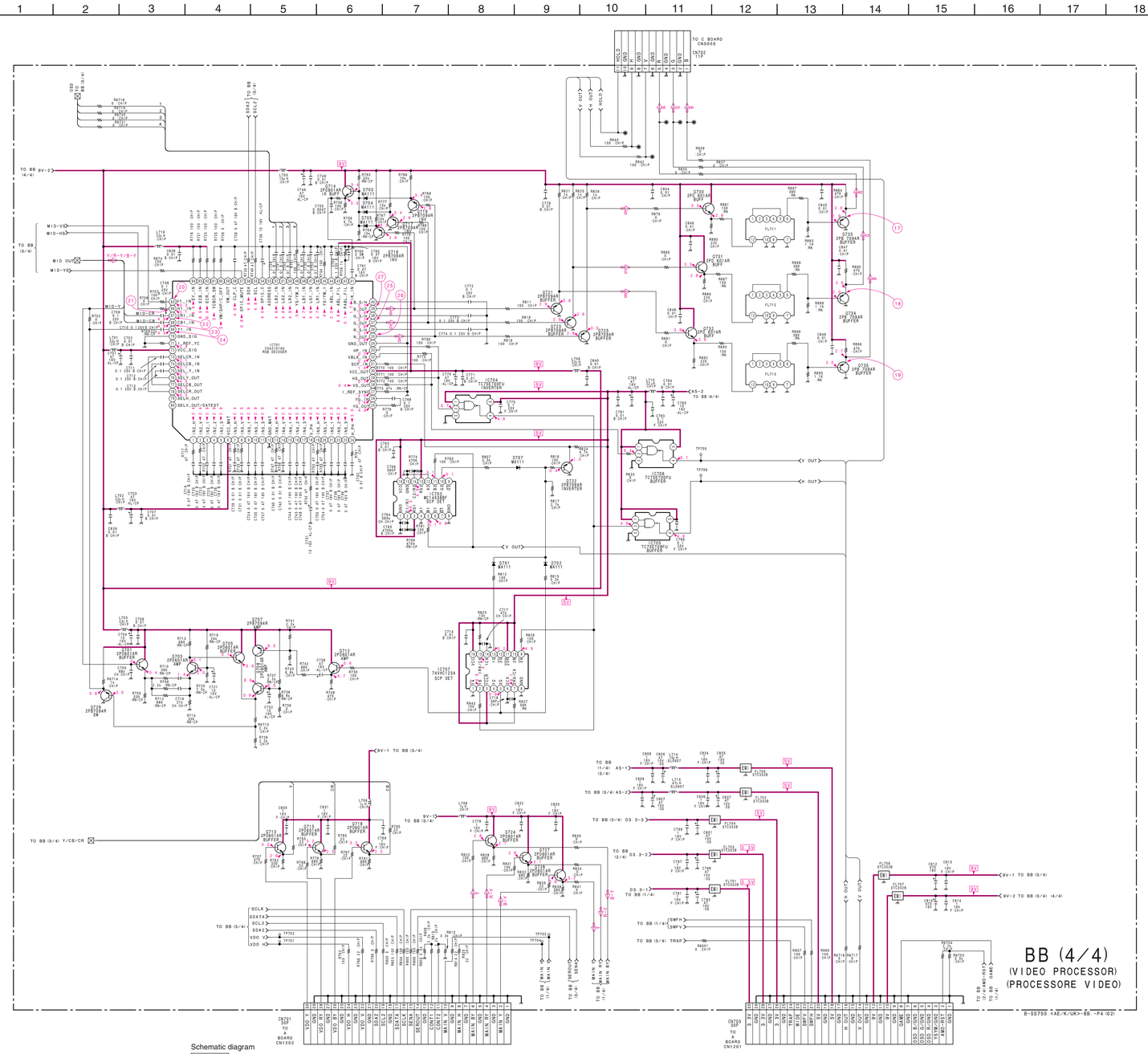
Schematic diagram
BB (2/4) board

– 86 –

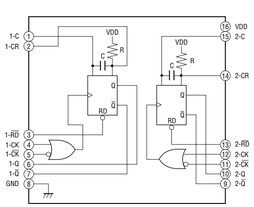
– 87 –

– 88 –

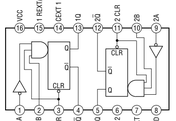

IC509
CXD9509Q
MULTI IMAGE
DRIVER
IC505
CXA3268AQ-T6
WRITE PLL
IC510
CXD3268Q-T6
D/A
IC512
MB81F643242B-10
64M-SDRAM
IC511
PQ3TZ521P
2.5V-REG
IC503
TC7SET08FU
EXOR GATE
IC504
PQ3TZ521P
2.5V-REG
IC508
PQ3TZ521P
2.5V-REG
Q501
2SK2394
SW
Q502
2SC5066
LEVEL-SHIFT
Q503
2SA1832
SW
Q506
2SC5066
LEVEL-SHIFT
Q507
2SC5066
LEVEL-SHIFT
Q508
2SA1832
LEVEL-SHIFT
Q509
2SA1832
LEVEL-SHIFT
Q510
2SC5066
LEVEL-SHIFT
Q511
2SC5066
LEVEL-SHIFT
Q512
2SC5066
LEVEL-SHIFT
Q513
2SC5066
LEVEL-SHIFT
Q514
2SC5066
LEVEL-SHIFT
Q515
2SC5066
LEVEL-SHIFT
Q516
2SC5066
LEVEL-SHIFT
Q517
2SC5066
LEVEL-SHIFT
Q518
2SC5066
LEVEL-SHIFT
Q519
2SC5066
LEVEL-SHIFT
Q520
2SC5066
LEVEL-SHIFT
Q521
2SC5066
LEVEL-SHIFT
Q522
2SC5066
LEVEL-SHIFT



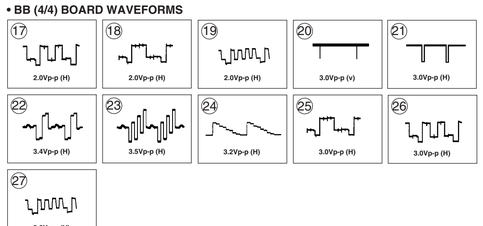
BB (4/4) BOARD : IC703 MC14538BFEL



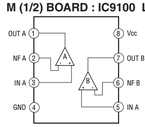
BB (4/4) BOARD : IC707 74VHC123ASJX



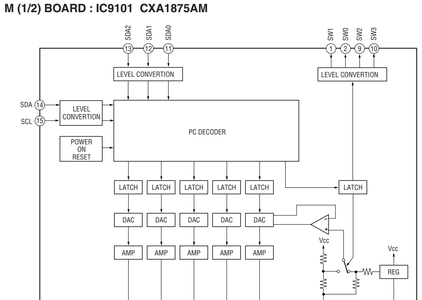
• BB (4/4) BOARD WAVEFORMS



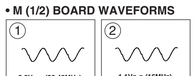
M (1/2) BOARD : IC9100 LM393PS

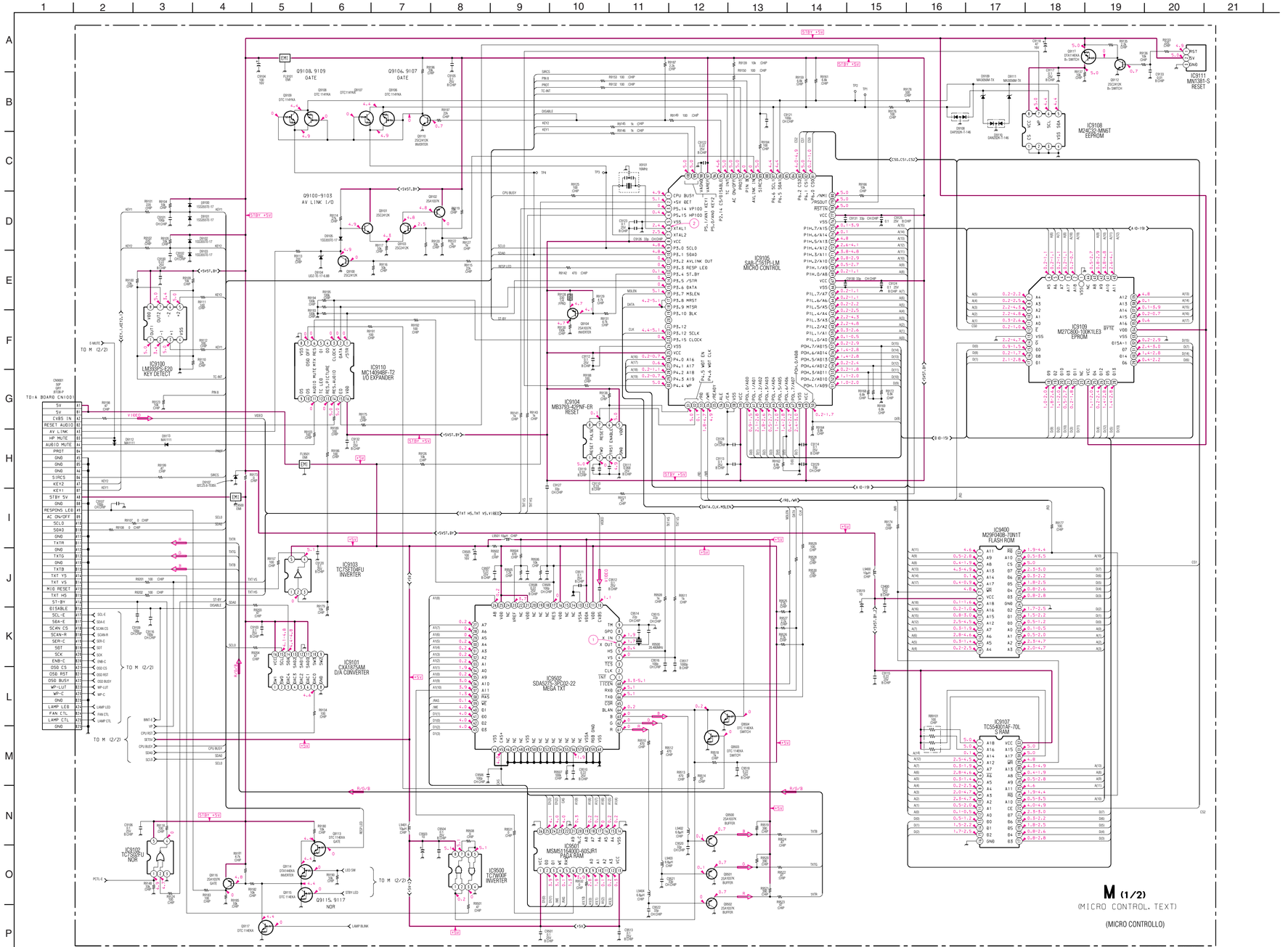


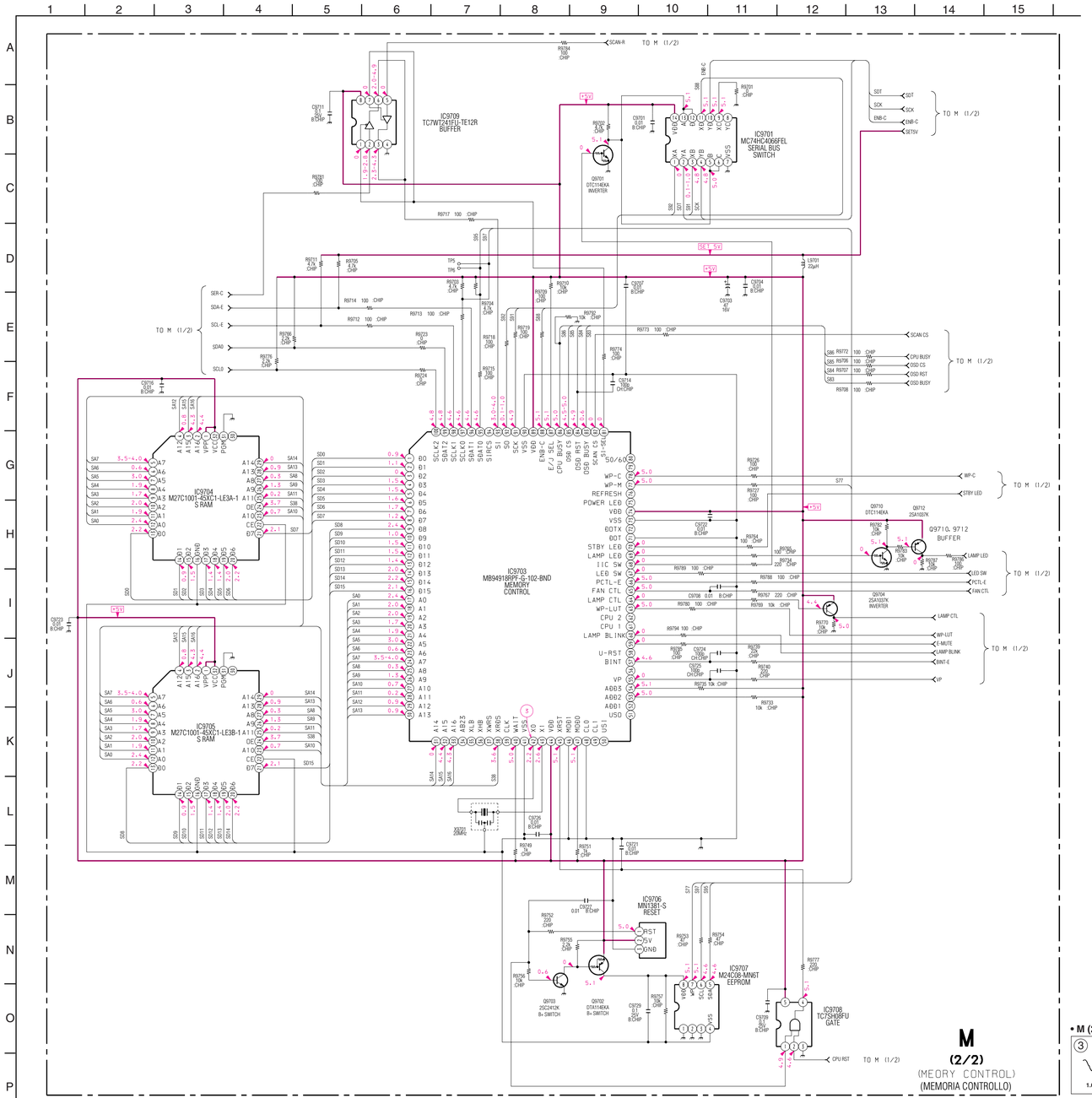
M (1/2) BOARD : IC9101 CXA1875AM



• M (1/2) BOARD WAVEFORMS







M
(2/2)
(MEORY CONTROL)
(MEMORIA CONTROLLO)

(B-SS750.<AE/UK/K>-M. (02))

• M (2/2)BOARD WAVEFORMS

③

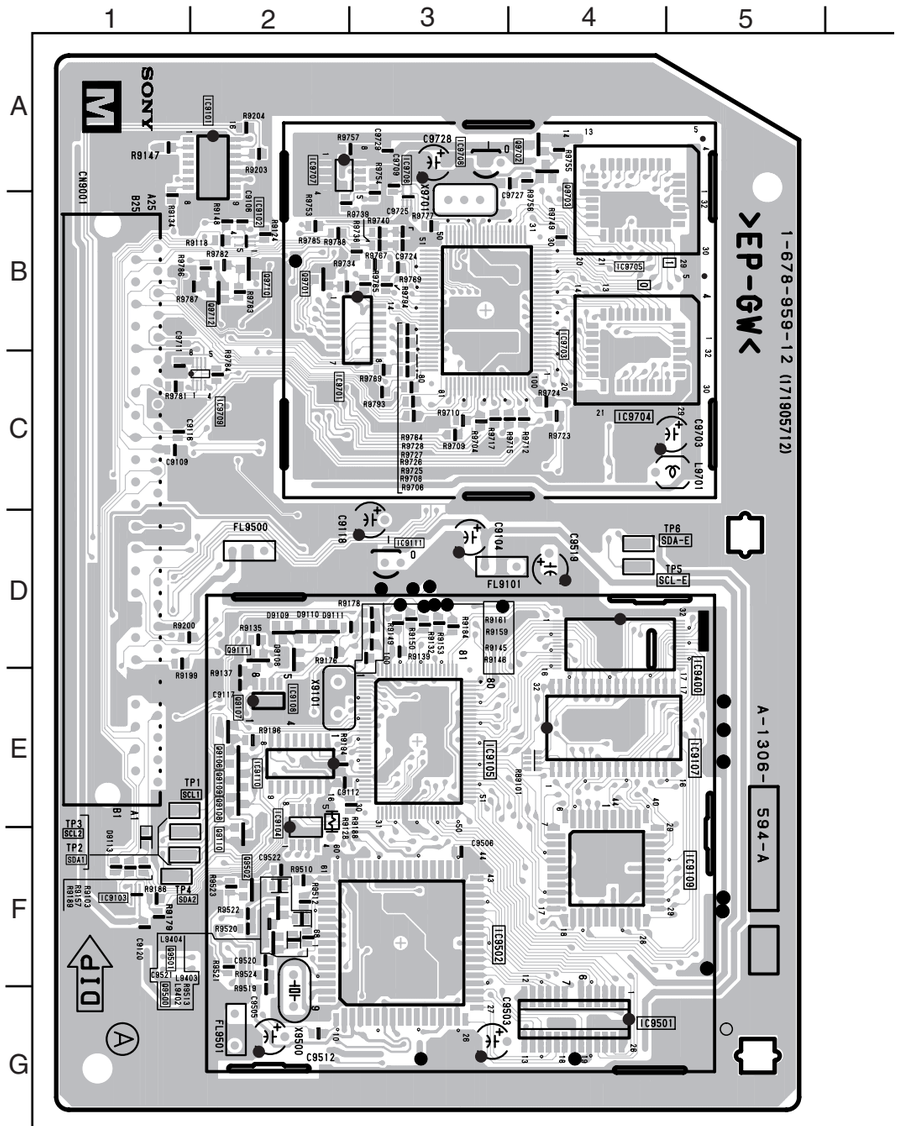
1.6Vp-p (20MHz)

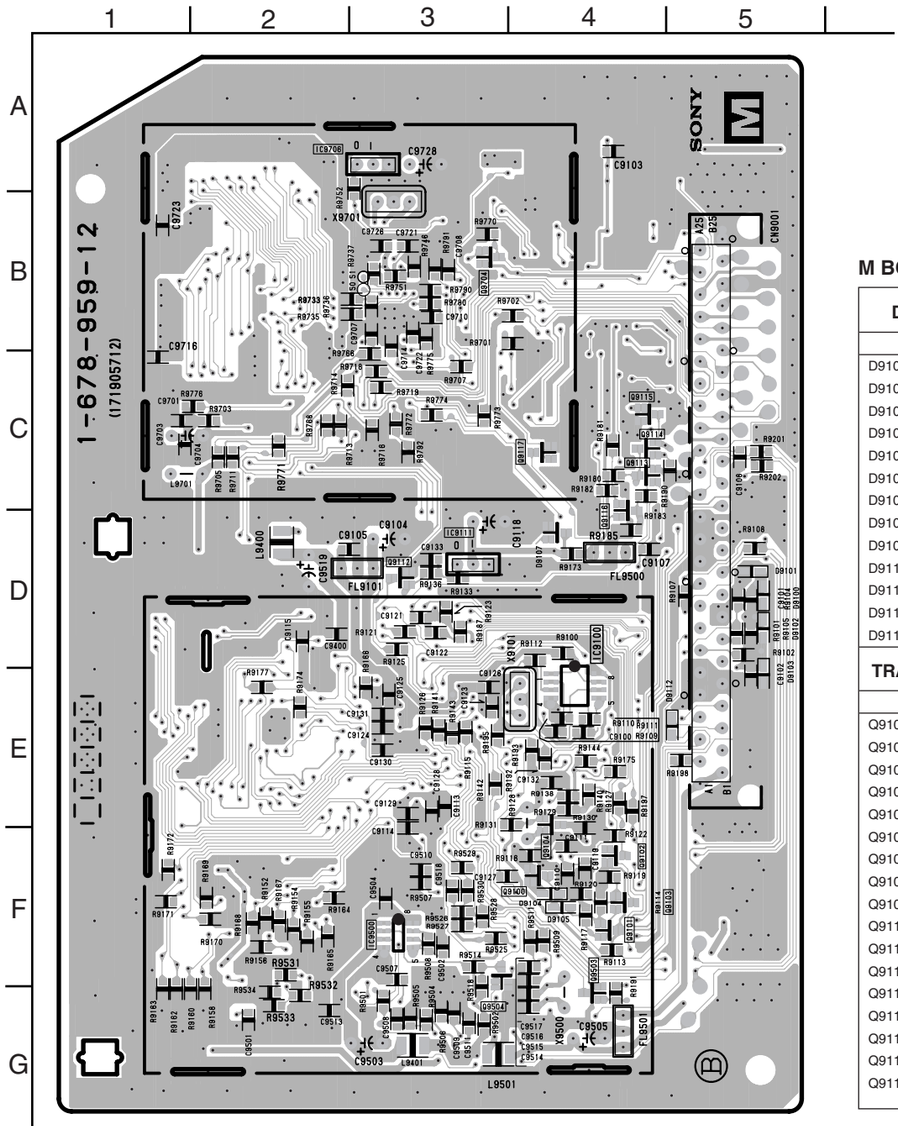
Schematic diagram
← M (1/2) board

Schematic diagram
M (2/2) board →

M(1/2) [MICRO CONTROL, TEXT] **M(2/2)** [MEMORY CONTROL]

– M Board –





M BOARD

DIODE			
	L	R	*
D9100		D-5	③
D9101		D-5	③
D9102		D-5	③
D9103		E-5	③
D9104		F-4	③
D9105		F-4	③
D9107		D-4	③
D9108	D-2		⑪
D9109	D-2		⑤
D9110	D-2		⑨
D9111	D-2		⑤
D9112		E-5	③
D9113		F-1	③

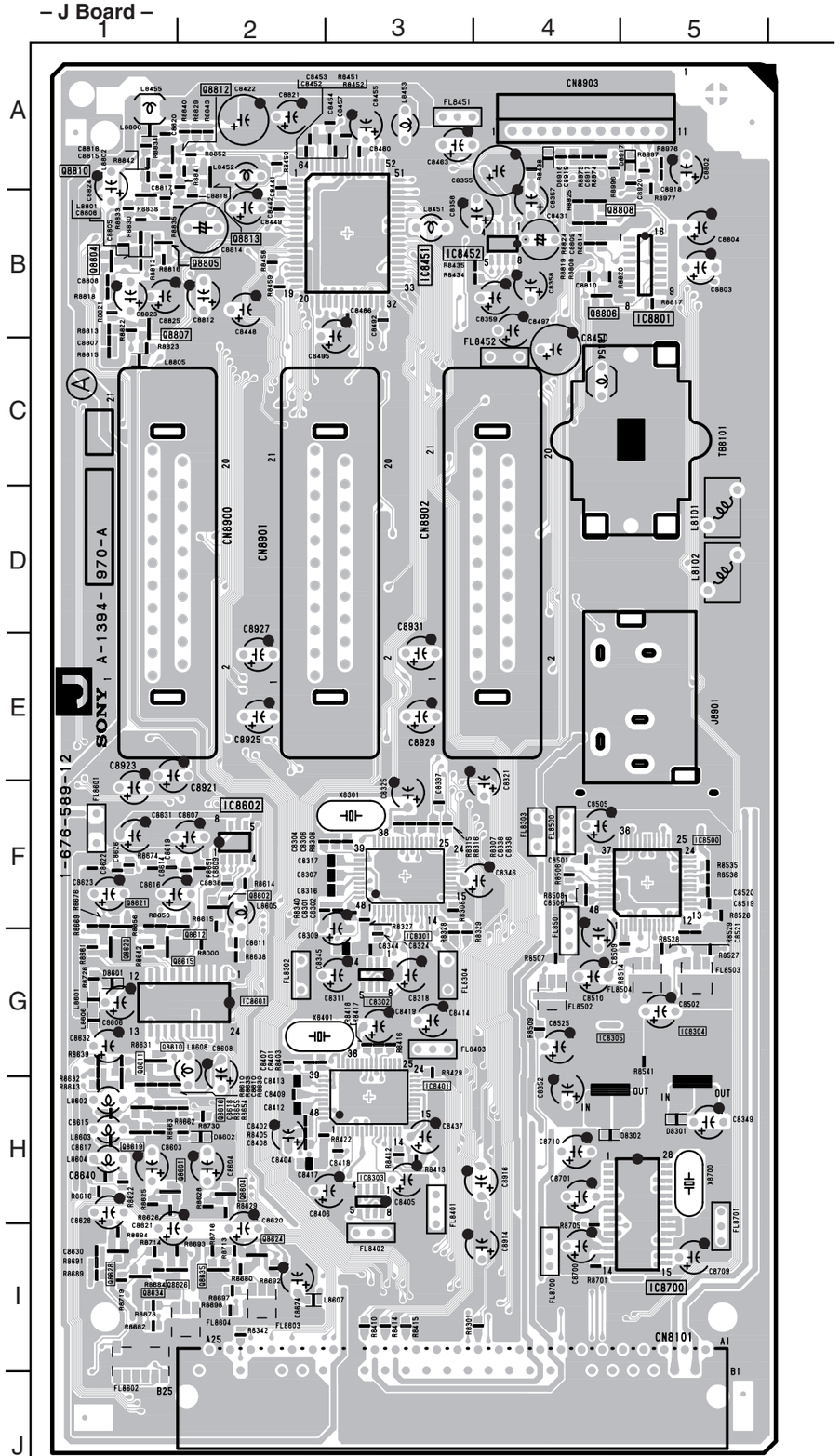
TRANSISTOR			
	L	R	*
Q9100		F-4	①
Q9101		F-4	①
Q9102		F-4	①
Q9103		F-4	①
Q9104		F-4	①
Q9106	E-2		②
Q9107	E-2		②
Q9108	E-2		②
Q9109	E-2		②
Q9110	F-2		②
Q9111	D-2		②
Q9112		D-3	①
Q9113		C-4	①
Q9114		C-4	①
Q9115		C-4	①
Q9116		D-4	①
Q9117		C-4	①
Q9500	F-1		②
Q9501	F-1		②
Q9502	F-2		②
Q9503		F-4	①
Q9504		G-3	①
Q9701	B-2		②
Q9702	A-4		②
Q9703	B-4		②
Q9704		B-3	①
Q9710	B-2		②
Q9712	B-2		②

IC		
	L	R
IC9100		D-4
IC9101	A-2	
IC9102	B-2	
IC9103	F-1	
IC9104	E-2	
IC9105	E-3	
IC9107	E-5	
IC9108	E-2	
IC9109	F-5	
IC9110	E-2	
IC9111	D-3	D-3
IC9400	D-5	
IC9500		F-3
IC9501	G-4	
IC9502	F-3	
IC9701	C-2	
IC9703	B-4	
IC9704	C-4	
IC9705	B-4	
IC9706	A-3	A-2
IC9707	A-2	
IC9708	A-3	
IC9709	C-2	

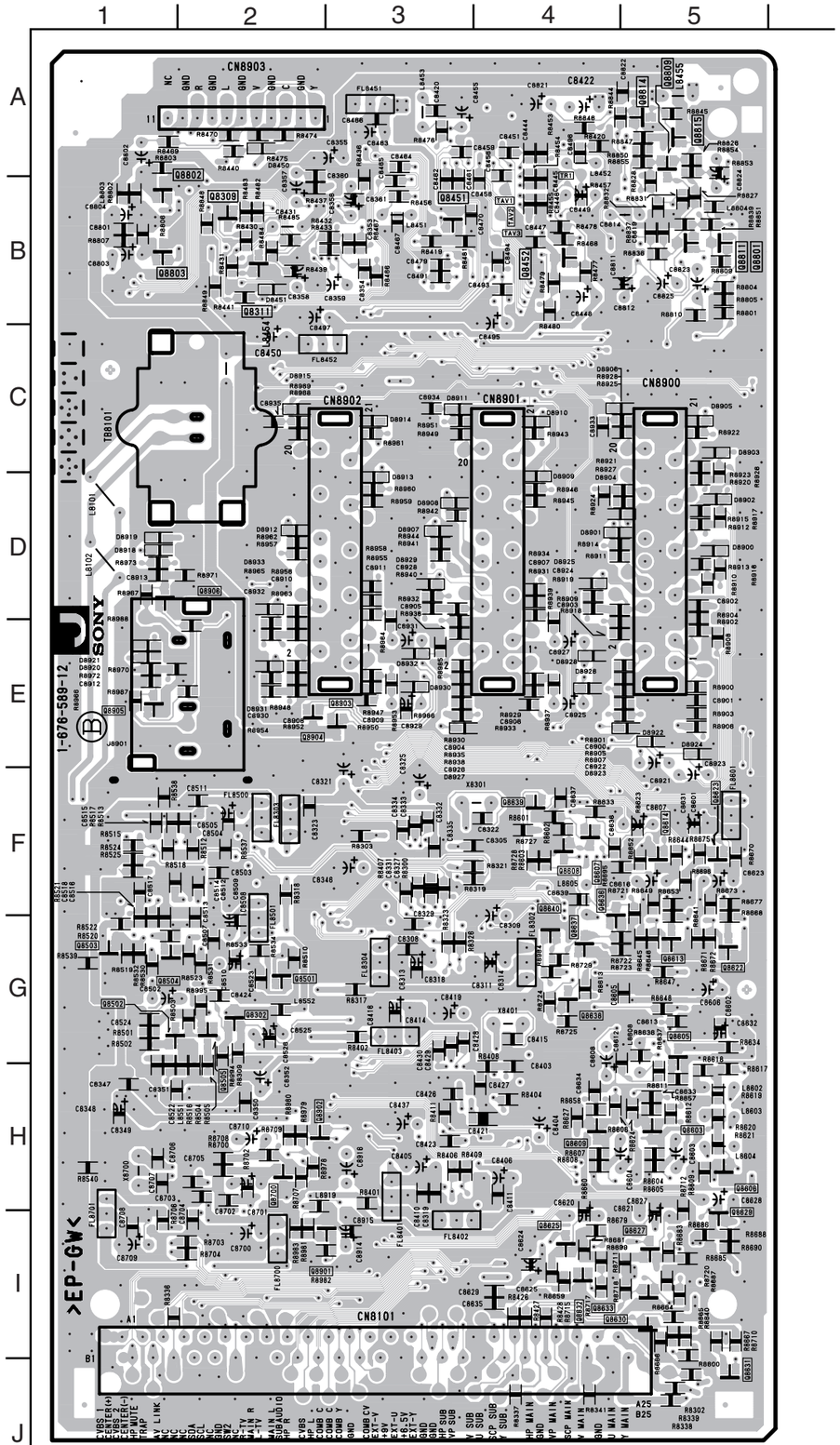
L ; component side
R ; conductor side

J (1/2) [AV SELECT SWITCH, VIDEO PROCESS, AUTO WIDE] **J (2/2)** [PICTURE BOOSTER]

– J Board –



– 107 –



– 108 –

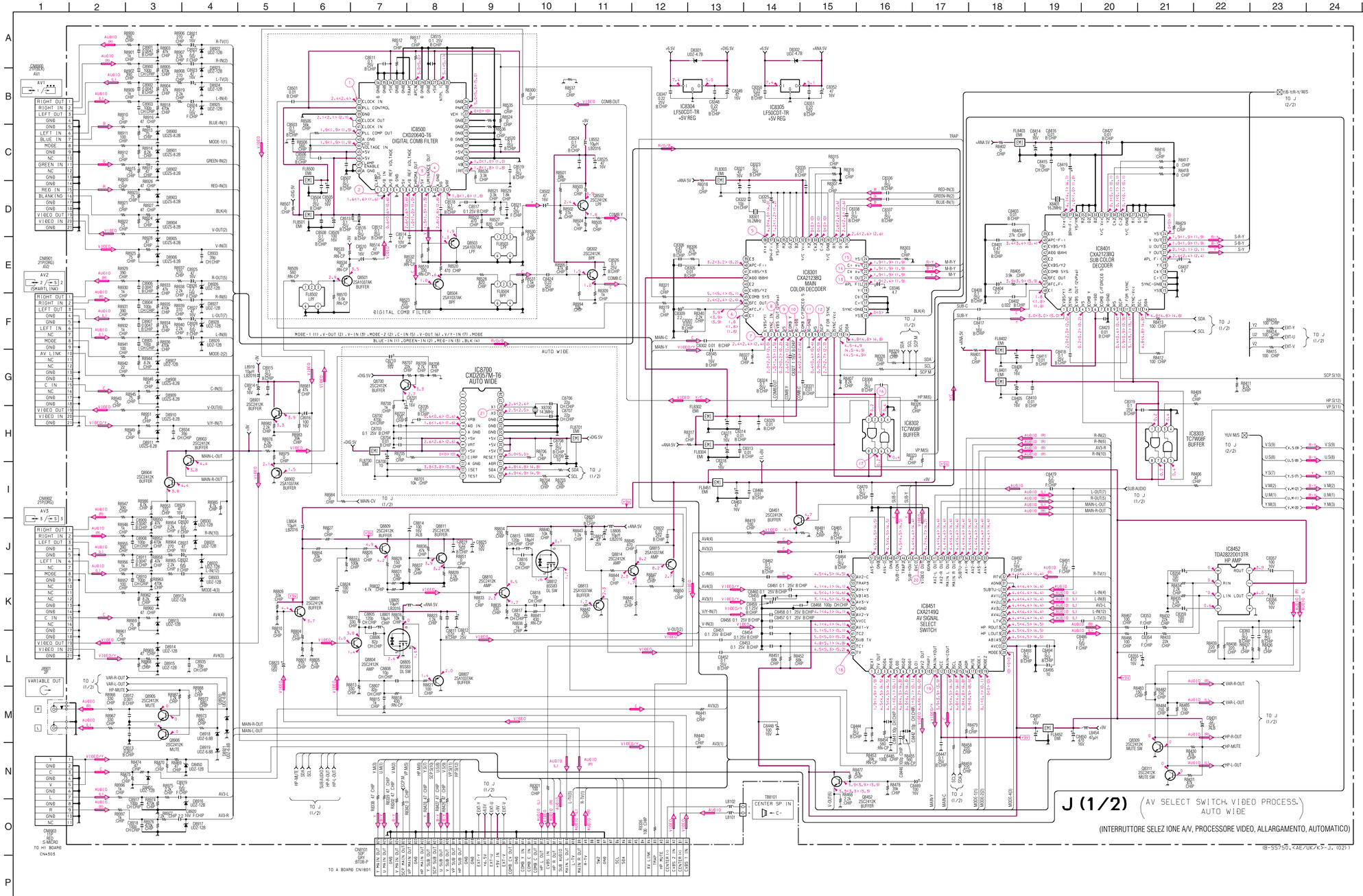
J BOARD

DIODE			
	L	R	*
D8301	H-5		③
D8302	H-5		③
D8450		A-2	③
D8451		B-2	③
D8601	G-1		③
D8900		D-5	③
D8901		D-4	③
D8902		D-5	③
D8903		C-5	③
D8904		D-4	③
D8905		C-5	③
D8906		C-4	③
D8907		D-3	③
D8908		D-3	③
D8909		D-4	③
D8910		C-4	③
D8911		C-3	③
D8912		D-2	③
D8913		D-3	③
D8914		C-3	③
D8915		C-2	③
D8916	A-4		③
D8917	A-5		③
D8918		D-1	③
D8919		D-1	③
D8920		E-1	③
D8921		E-1	③
D8922		E-5	③
D8923		F-4	③
D8924		E-5	③
D8925		D-4	③
D8926		E-4	③
D8927		F-3	③
D8928		E-4	③
D8929		D-3	③
D8930		E-3	③
D8931		E-2	③
D8932		E-3	③
D8933		D-2	③

TRANSISTOR			
	L	R	*
Q8302		G-2	①
Q8309		B-2	①
Q8311		B-2	①
Q8451		B-3	①
Q8452		B-4	①
Q8501		G-2	①
Q8502		G-1	①
Q8503		G-1	①
Q8504		G-1	①
Q8505		H-2	①
Q8601	H-2		②
Q8602	F-2		②
Q8603		H-5	①
Q8604	H-2		②
Q8605		G-5	①
Q8606		H-5	①
Q8607		F-4	①
Q8608		F-4	①
Q8609		H-4	①
Q8610	G-1		②
Q8611	G-1		②
Q8612	G-2		②
Q8613		G-5	①
Q8614		F-5	①
Q8615	G-2		②
Q8616	H-2		②
Q8619	H-1		②
Q8620	G-1		②
Q8621	F-1		②
Q8622		G-5	①
Q8623		F-5	①
Q8624	I-2		②
Q8625		I-4	①
Q8626	I-2		②
Q8627		I-5	①
Q8628	I-1		②
Q8629		I-5	①
Q8630		I-4	①
Q8631		J-5	①
Q8632		I-4	①
Q8633		I-4	①
Q8634	I-1		②
Q8635	I-2		②
Q8636		F-4	①
Q8637		G-4	①
Q8638		G-4	①
Q8639		F-4	①
Q8640		F-4	①
Q8700		H-2	①
Q8801		B-5	①
Q8802		A-2	①
Q8803		B-1	①
Q8804	B-4		②
Q8805	B-2		⑰
Q8806	B-4		②
Q8807	B-1		②
Q8808	B-4		②
Q8809		A-5	①
Q8810	A-1		②
Q8811		B-5	①
Q8812	A-2		⑰
Q8813	B-2		②
Q8814		A-5	①
Q8815		A-5	①
Q8901		I-2	①
Q8902		H-2	①
Q8903		E-3	①
Q8904		E-2	①
Q8905		E-1	①
Q8906		D-2	①

IC		
	L	R
IC8301	G-3	
1C8302	G-3	
IC8303	H-3	
1C8304	G-5	
IC8305	G-4	
1C8401	H-3	
IC8451	B-3	
1C8452	B-3	
IC8500	F-5	
1C8601	G-2	
IC8602	F-2	
1C8700	I-5	
IC8801	B-5	

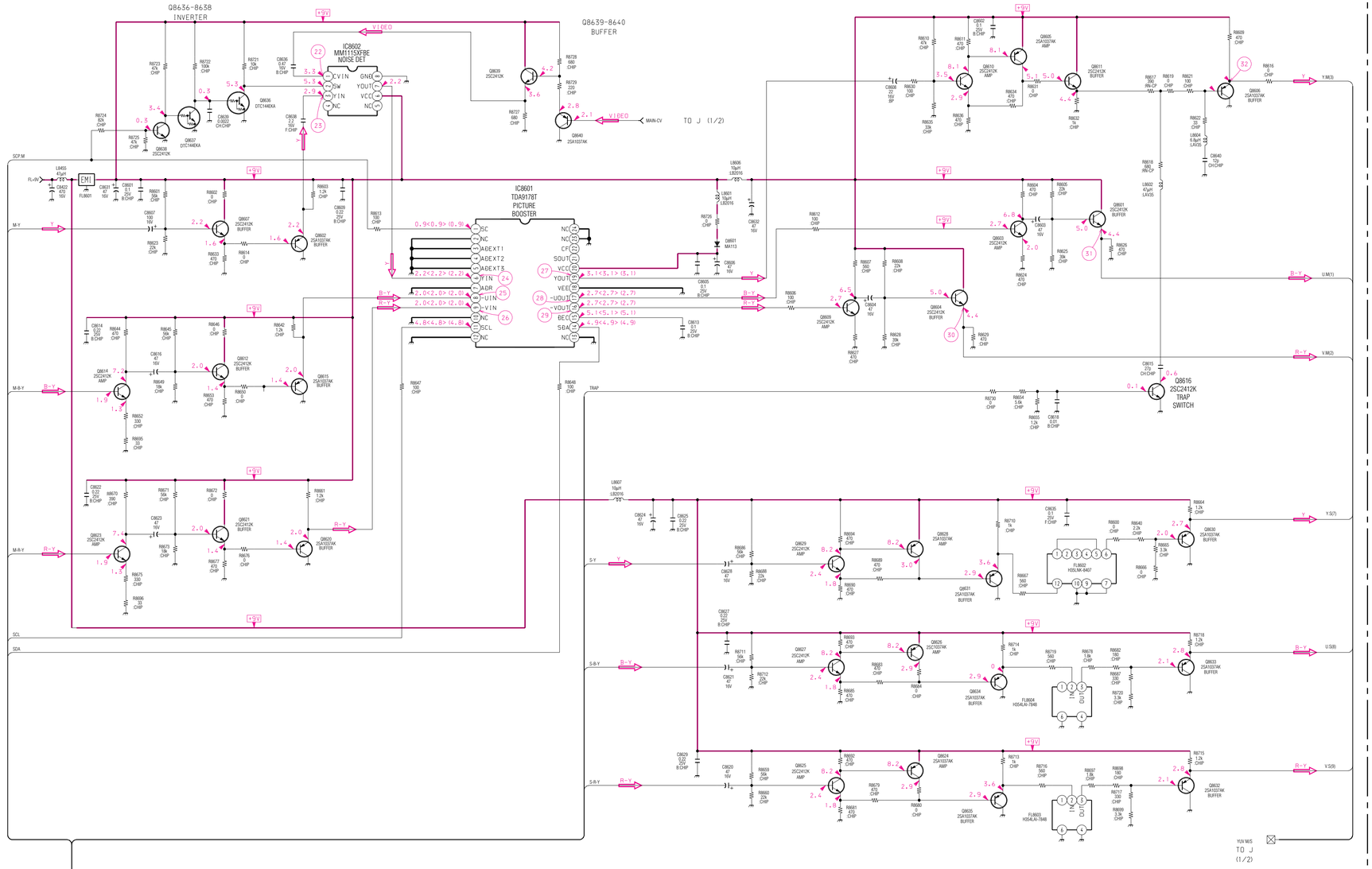
L ; component side
R ; conductor side


J (1/2)
(AV SELECT SWITCH, VIDEO PROCESS, AUTO WIDE)
(INTERRUTTORE SELEZ IONE A/V, PROCESSORE VIDEO, ALLARGAMENTO, AUTOMATICO)
IC8500 CXD2064Q-T6 DIGITAL COMB FILTER
IC8700 CXD2057M-T6 AUTO WIDE
IC8301 CXA2123BQ MAIN COLOR DECODER
IC8401 CXA2123BQ SUB COLOR DECODER
IC8451 CXA2149Q AV SIGNAL SELECT SWITCH
IC8452 TDA2822D013TR HP AMP
IC8302 TC7W08F BUFFER
IC8303 TC7W08F BUFFER
IC8304 LF50CDT-TR +5V REG
IC8305 LF50CDT-TR +5V REG
J (1/2) BOARD : IC8452 TDA2822D013TR
TO A BOARD CN1801
TO H1 BOARD CN4505
(B-5575D,KAE/UK/K3-J,(02))

J (2/2)

(PICTURE BOOSTER)

(AUMENTO DELL' IMMAGINE)



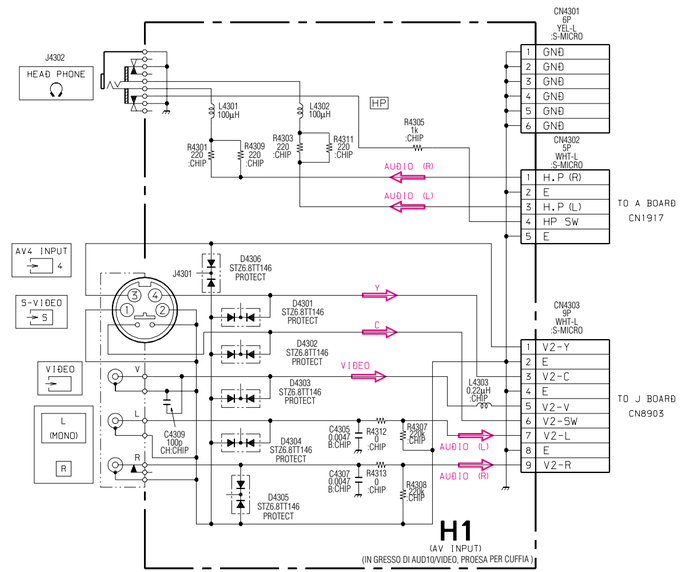
(B-SS750.<AE/UK/K>-J. (02))

• J BOARD WAVEFORMS

1 PAL/SECAM:0.8Vp-p (4.43MHz) NTSC:0.8Vp-p (3.58MHz)	2 PAL:1.8Vp-p (H) NTSC:1.5Vp-p (H)	2 SECAM 1.8Vp-p (H)	3 PAL:1.3Vp-p (H) NTSC:1.5Vp-p (H)	3 SECAM 0.8Vp-p (H)
4 PAL/NTSC:1.8Vp-p (H) SECAM:2.0Vp-p (H)	5 0.36Vp-p (16.2MHz)	6 PAL/SECAM:0.78Vp-p (4.43MHz) NTSC:0.8Vp-p (3.58MHz)	7 PAL:1.8Vp-p (H) NTSC:1.5Vp-p (H)	7 SECAM 1.2Vp-p (H)
8 PAL:2.5Vp-p (H) NTSC:2.0Vp-p (H)	8 SECAM 1.0Vp-p (H)	9 5..0Vp-p (H)	10 PAL/SECAM:1.1Vp-p (H) NTSC:0.9Vp-p (H)	11 PAL:0.65Vp-p (H) NTSC:0.48Vp-p (H)
11 SECAM 0.4Vp-p (H)	12 PAL:4.5Vp-p (H) SECAM:4.3Vp-p (H) NTSC:4.4Vp-p (H)	13 1.0Vp-p (H)	14 PAL:1.2Vp-p (H) SECAM:1.4Vp-p (H) NTSC:1.1Vp-p (H)	15 PAL:1.2Vp-p (H) SECAM:1.4Vp-p (H) NTSC:1.1Vp-p (H)
16 5.0Vp-p (H)	17 4.9Vp-p (H)	18 PAL:1.1Vp-p (H) NTSC:1.0Vp-p (H)	18 SECAM 1.1Vp-p (H)	19 PAL:1.1Vp-p (H) NTSC:1.0Vp-p (H)
19 SECAM 1.2Vp-p (H)	20 PAL:2.3Vp-p (H) NTSC:2.0Vp-p (H)	20 SECAM 2.2Vp-p (H)	21 4.7Vp-p (14.3MHz)	22 PAL:1.8Vp-p (H) NTSC:1.5Vp-p (H)
22 SECAM 1.8Vp-p (H)	23 PAL/SECAM:1.0Vp-p (H) NTSC:0.95Vp-p (H)	24 PAL/SECAM:0.95Vp-p (H) NTSC:0.9Vp-p (H)	25 PAL:1.4Vp-p (H) SECAM:1.6Vp-p (H) NTSC:1.3Vp-p (H)	26 PAL:1.1Vp-p (H) SECAM:1.3Vp-p (H) NTSC:1.2Vp-p (H)
27 PAL/SECAM:1.1Vp-p (H) NTSC:1.0Vp-p (H)	28 PAL:1.3Vp-p (H) SECAM:1.5Vp-p (H) NTSC:1.2Vp-p (H)	29 PAL:1.1Vp-p (H) SECAM:1.3Vp-p (H) NTSC:1.2Vp-p (H)	30 PAL/NTSC:1.2Vp-p (H) SECAM:1.4Vp-p (H)	31 PAL/NTSC:1.2Vp-p (H) SECAM:1.4Vp-p (H)
32 2.0Vp-p (H)				

Schematic diagram ← J (1/2) board

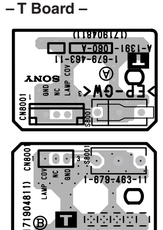
Schematic diagram J (2/2) board →

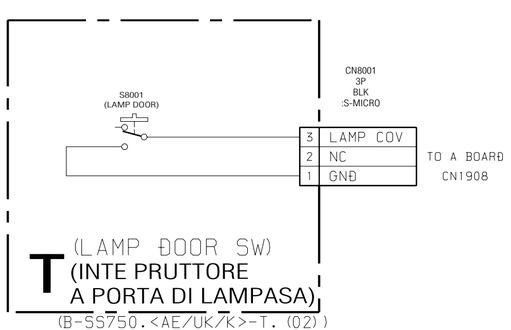


(B-SS750.<AE/UK/K>-H1. (02))

T [LAMP DOOR SW]

– T Board –

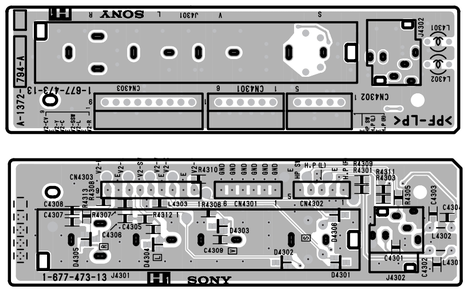




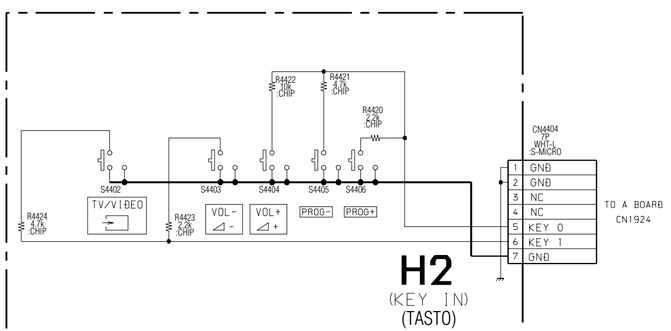
(B-SS750.<AE/UK/K>-T. (02))

H1 [AV INPUT]

– H1 Board –

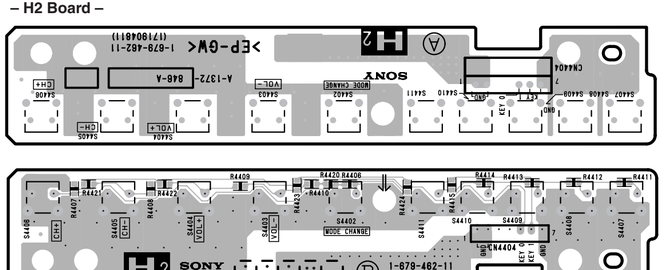


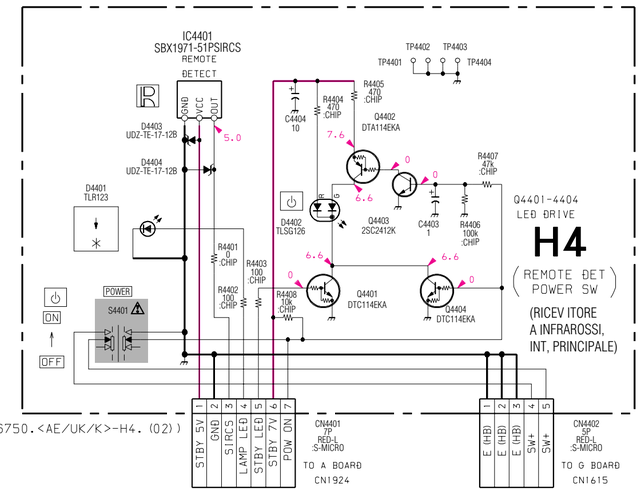
H2 [KEY IN]



(B-SS750.<AE/UK/K>-H2. (02))

– H2 Board –

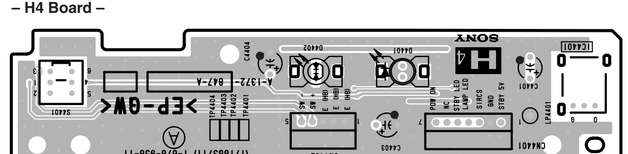


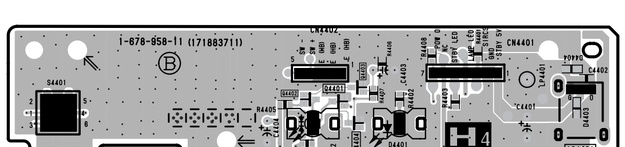


(B-SS750.<AE/UK/K>-H4. (02))

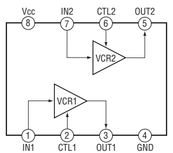
H4 [REMOTE DET, POWER SW]

– H4 Board –

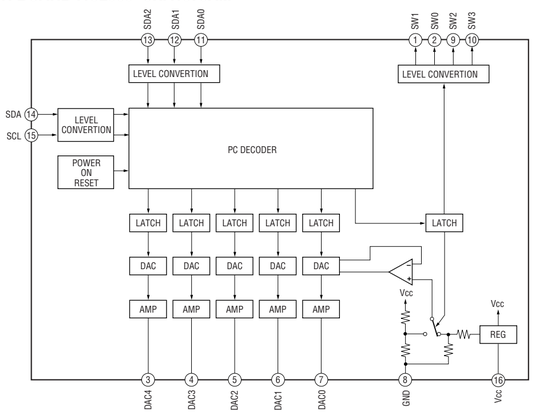




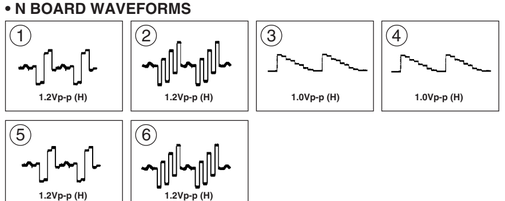
N BOARD : IC2502 BA7655AT

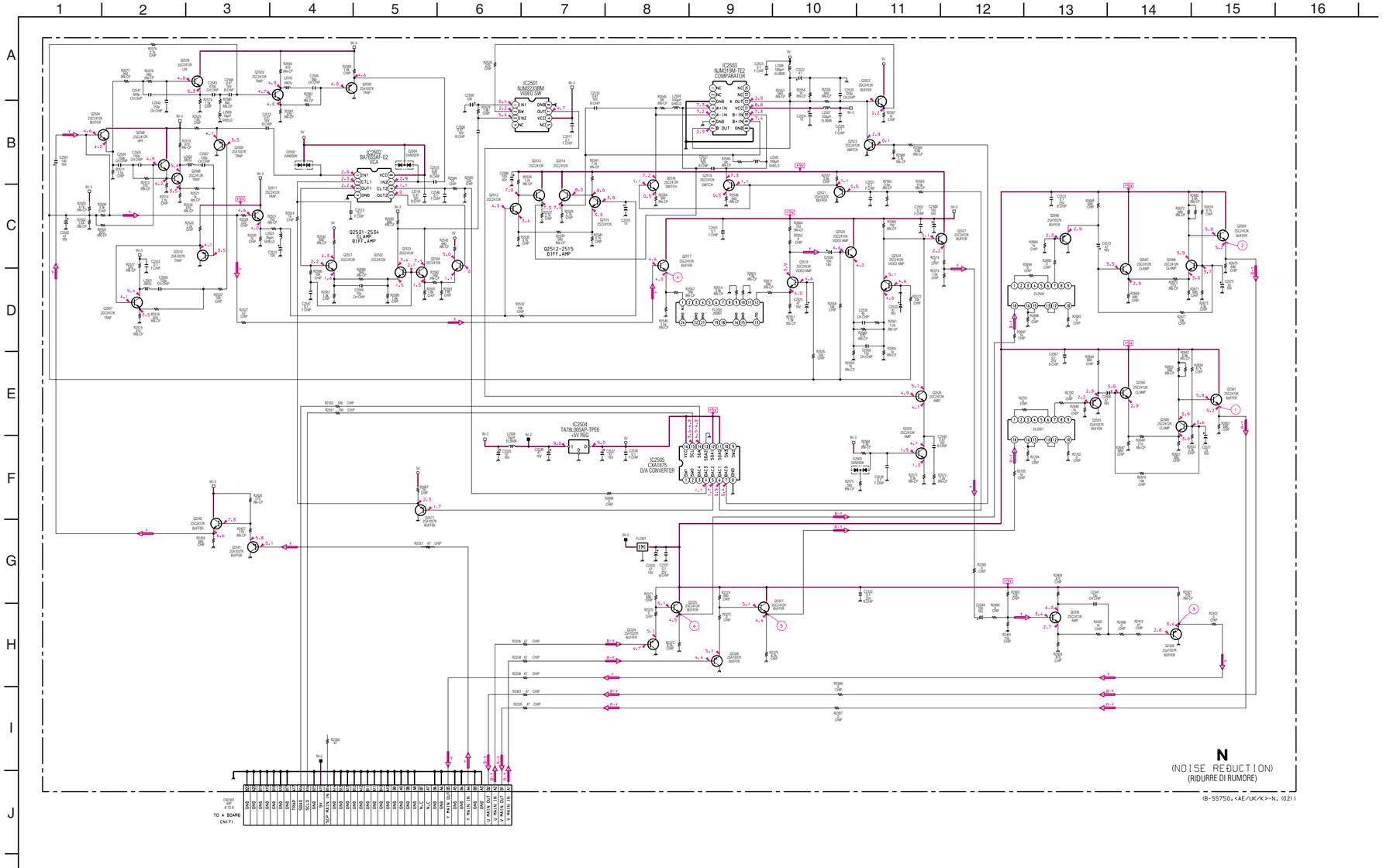


N BOARD : IC2505 CXA1875AM



• N BOARD WAVEFORMS



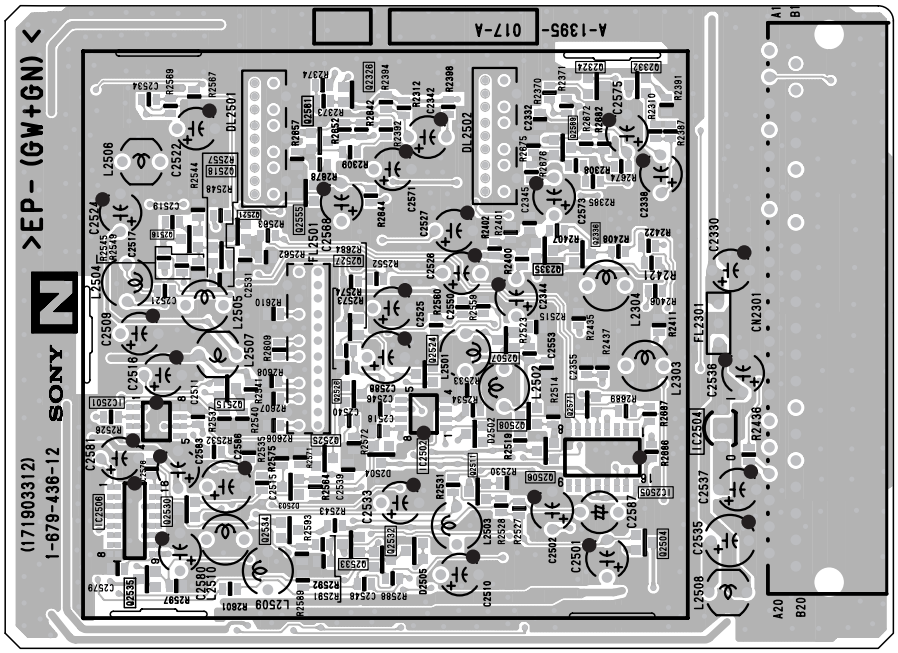


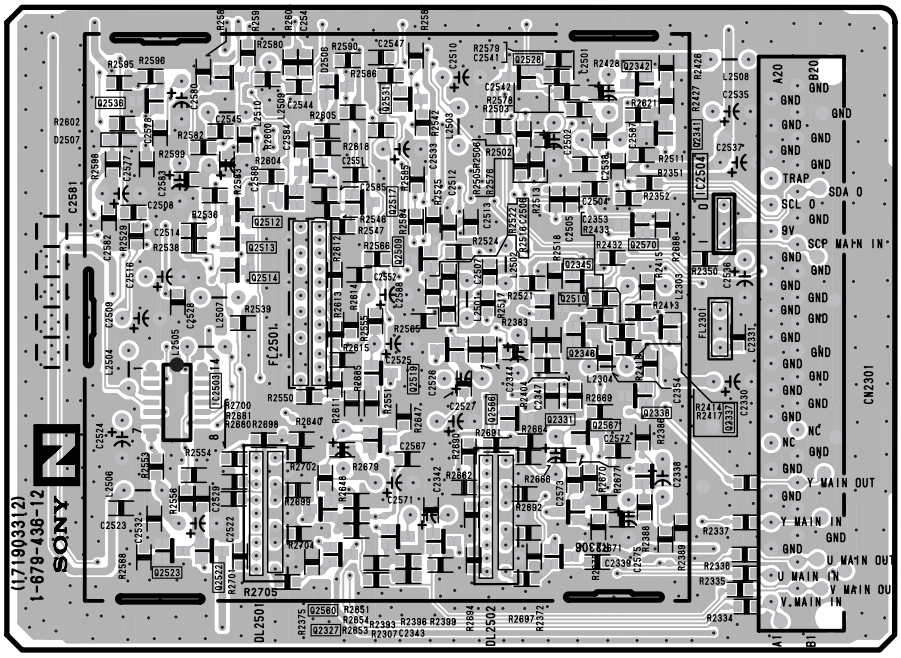
Schematic diagram
H1 H2 H4 T board

Schematic diagram
N board

N [NOISE REDUCTION]

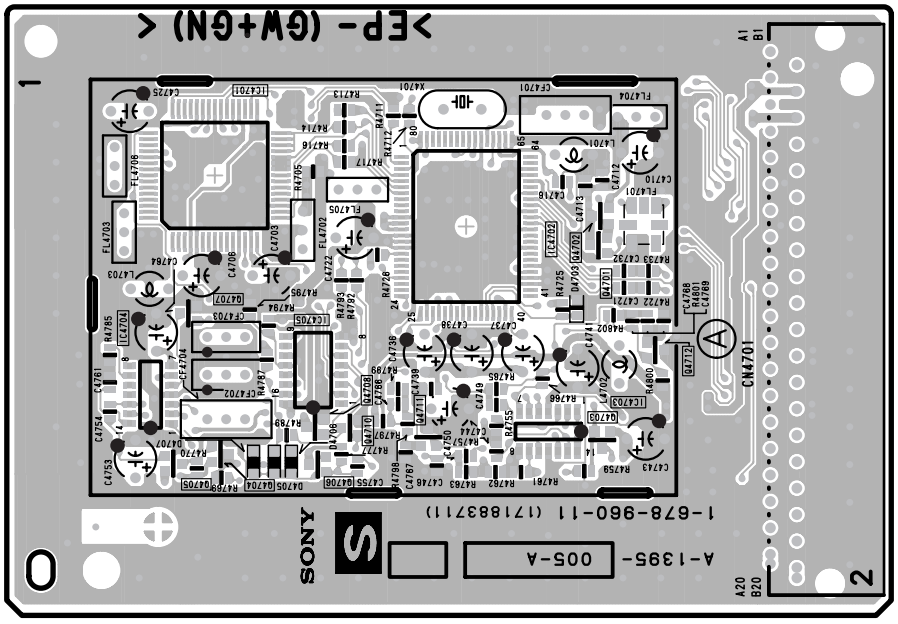
– N Board –

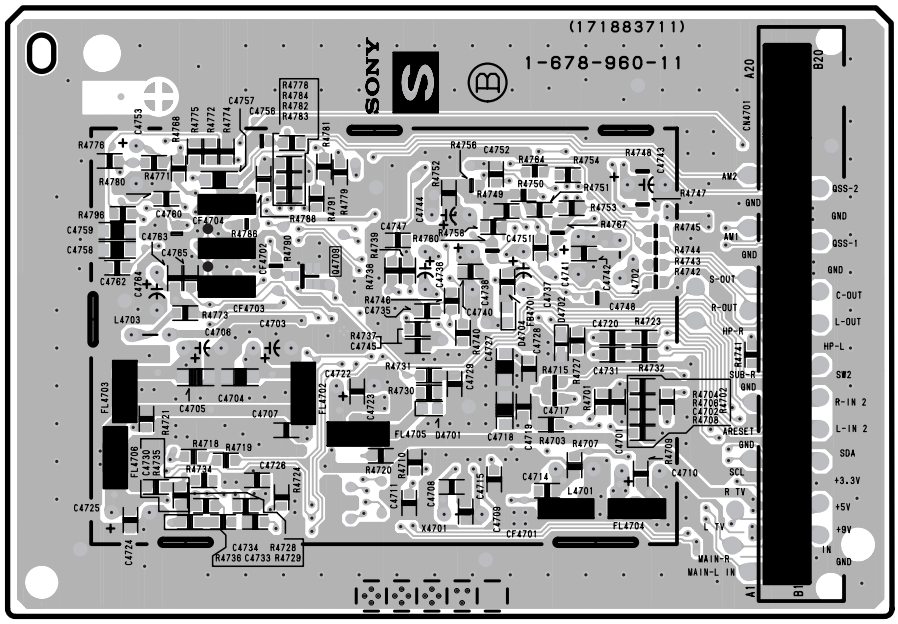


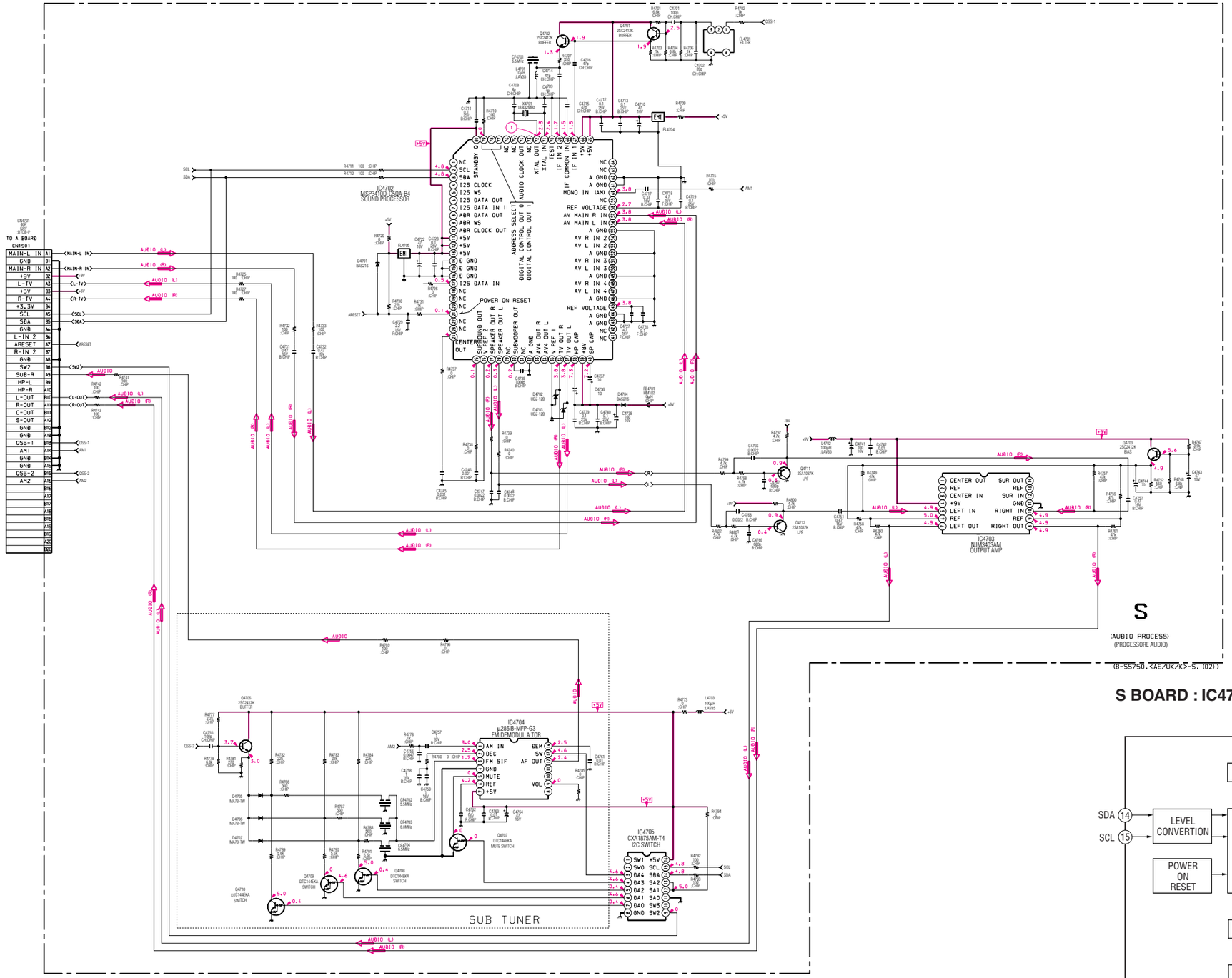


S [AUDIO PROCESS]

– S Board –



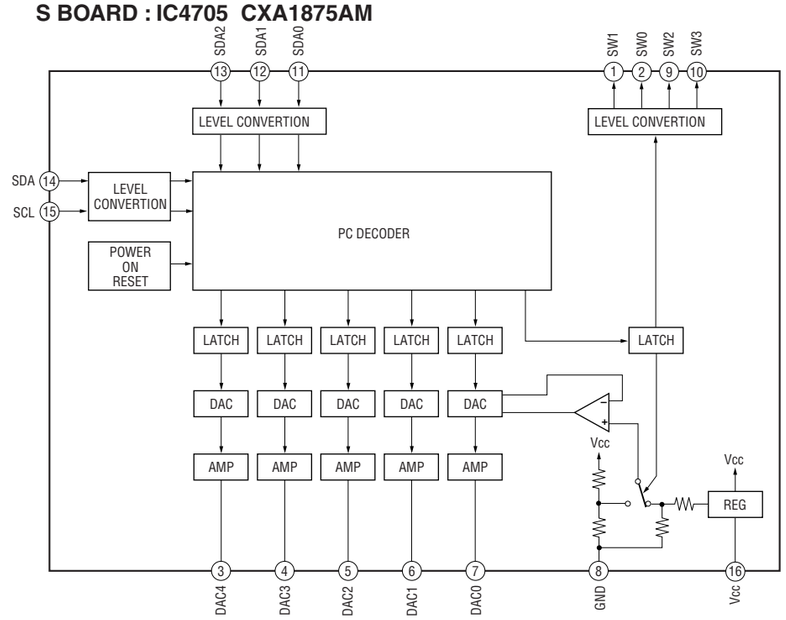


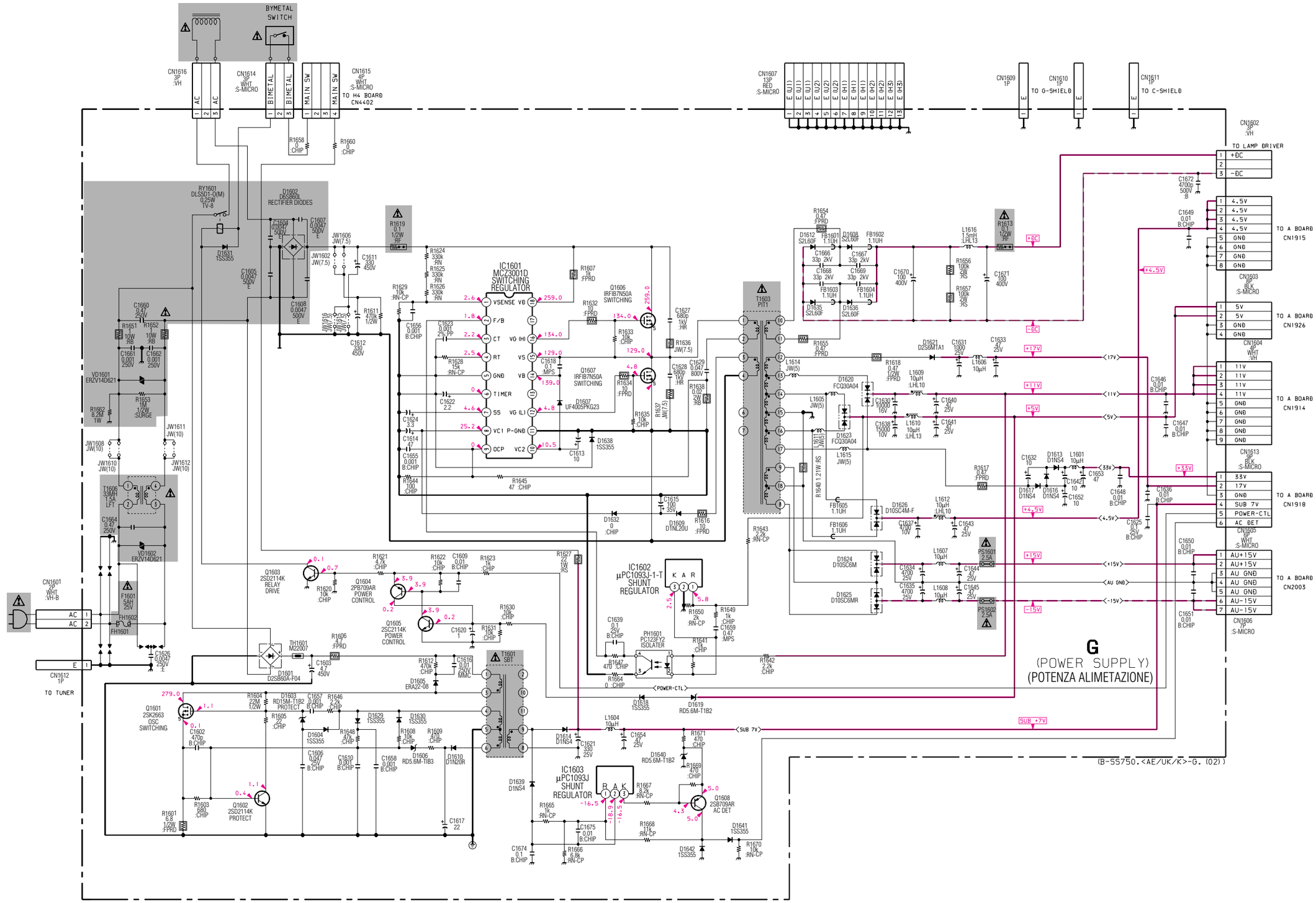


• S BOARD WAVEFORMS

① 2.5Vp-p (18.432MHz)

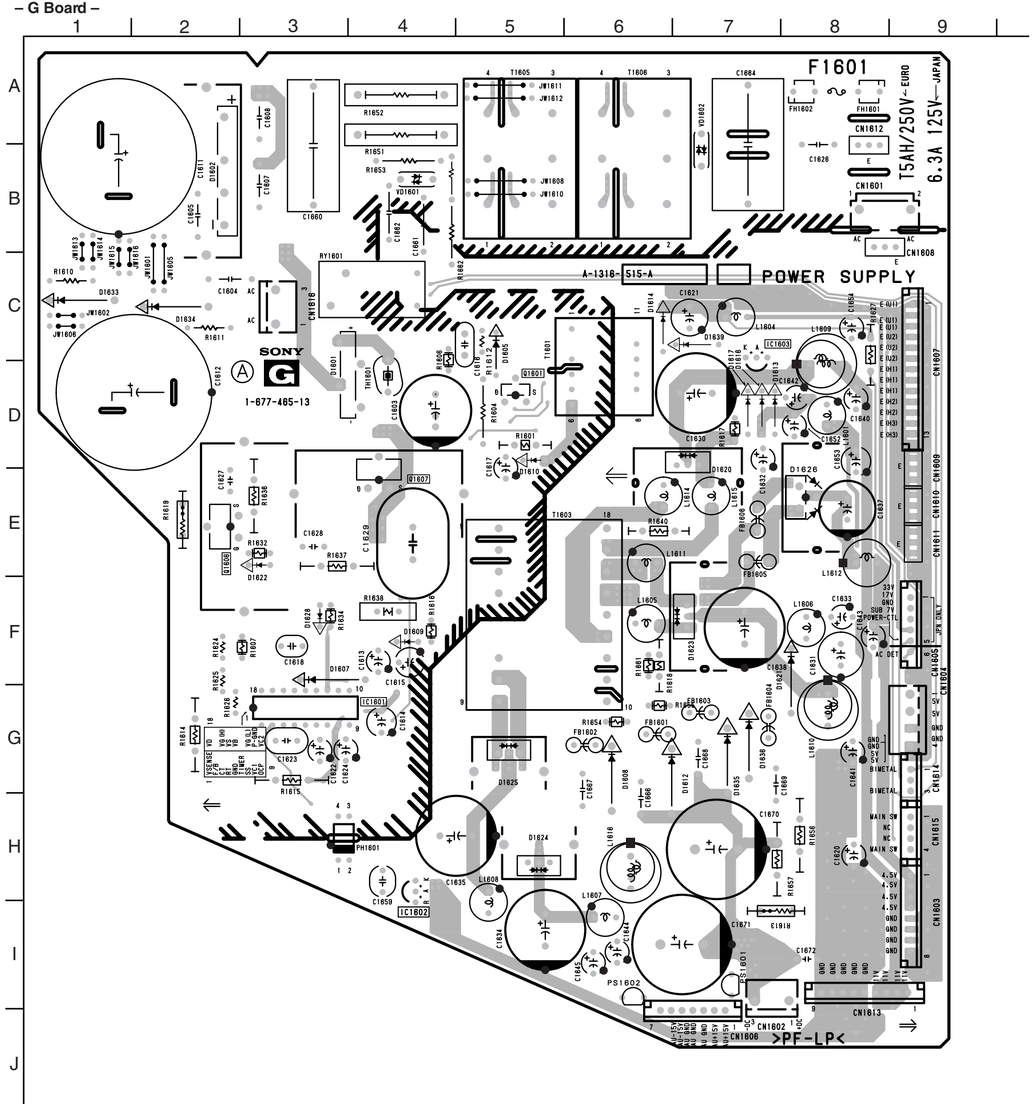
S BOARD : IC4705 CXA1875AM

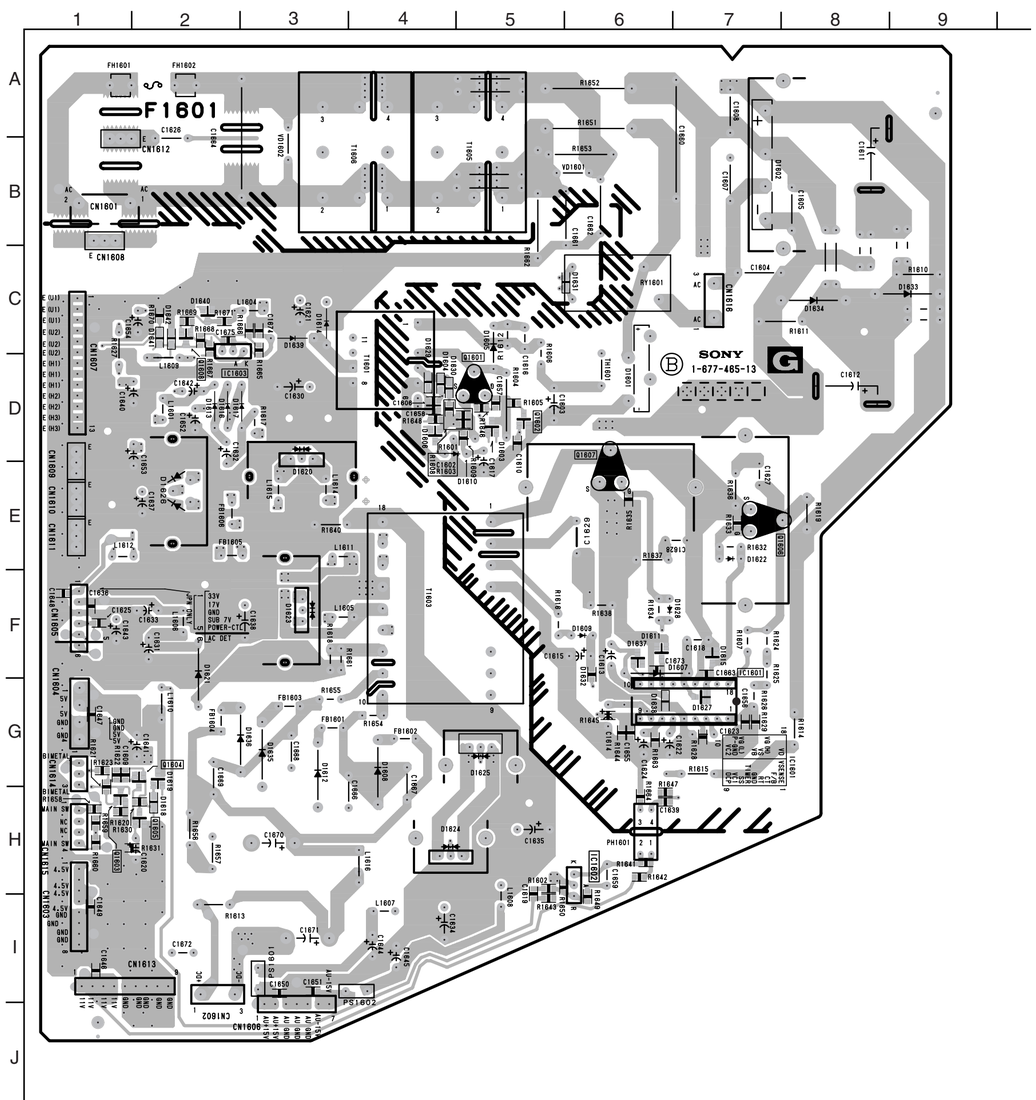




Schematic diagram
← S board

Schematic diagram
G board →





G BOARD

DIODE			
	L	R	*
D1108		J-8	③
D1601	D-3	D-6	-
D1602	B-2	B-7	-
D1603		D-5	④
D1604		D-4	③
D1605	C-5	C-5	-
D1606		D-4	④
D1607	F-3	F-6	-
D1608	G-6	G-4	-
D1609	F-4	F-6	-
D1610	D-5	E-5	-
D1611		F-6	④
D1612	G-7	G-3	-
D1613	D-7	D-2	-
D1614	C-6	C-3	-
D1615		F-7	④
D1616	D-7	D-2	-
D1617	D-7	D-2	-
D1618		H-2	③
D1619		H-2	④
D1620	D-7	E-3	-
D1621	F-8	F-2	-
D1622	E-3	E-7	-
D1623	F-7	F-3	-
D1624	H-5	H-4	-
D1625	G-5	G-5	-
D1626	E-8	E-2	-
D1627		G-7	④
D1628	F-6	F-6	-
D1629		D-4	③
D1630		D-4	③
D1631		C-6	③
D1632		F-6	⑤
D1633	C-1	C-9	-
D1634	C-2	C-8	-
D1635	G-7	G-3	-
D1636	G-7	G-3	-
D1637		F-6	④
D1638		G-6	⑤
D1639	C-7	C-3	-
D1640		C-2	④
D1641		C-2	③
D1642		C-2	③

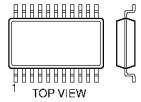
TRANSISTOR			
	L	R	*
Q501		D-2	①
Q1601	D-5	D-5	-
Q1602		D-5	①
Q1603		H-1	①
Q1604		G-2	①
Q1605		H-2	①
Q1606	E-2	E-7	-
Q1607	E-4	E-6	-
Q1608		D-2	①

IC		
	L	R
IC501	E-10	E-1
IC1601	G-4	G-7
IC1602	I-4	H-6
IC1603	C-7	D-2

L ; component side
R ; conductor side

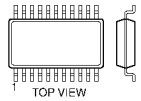
4-5. SEMICONDUCTORS

74VHC123ASJX
MC14094BF-
T2CXA1875AM-T4
MC14538BFEL
SN74HC163ANS



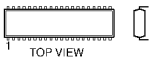
16pin SOP

BA7655AF-E2
LM393PS-E20
LM75CIMX-5
M24C32-MN6T
MB3793-42PNF-ER
NJM4558M-T2
TC7W04FU-TE12L
TC7WT241FU(TE12R)
M24C08-MN6T
NJM2233BM(TE2)
TC7W00F(TE12R)
TC7W08F(TE12R)
TDA2822D013TR



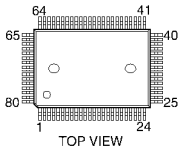
8pin SOP

CXA1815S

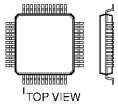


30pin DIP

CXA2101AQ

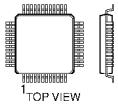


CXA2123BQ-T6
CXA3266Q-T6
CXD2064Q-T6



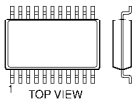
48pin QFP

CXA2149Q



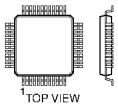
64pin QFP

CXD2057M-T6



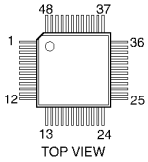
28pin SOP

CXD2090Q
TMC57127-MMP-54

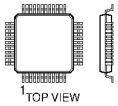


208pin QFP

CXD2309Q-T6

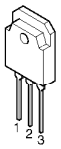


CXD9509AQ



240pin QFP

LF50CDT-TR
MN1381-S(TA)
TC78L005AP-TPE6



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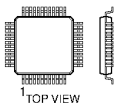
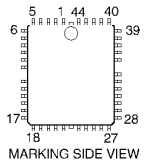
M27C1001-45XC1-LE3B-1

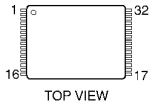


32pin QFP

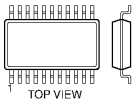
M27C800-100K1-LE31



M29F040B-70N1T

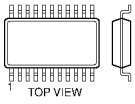


MB81F643242C-10FN



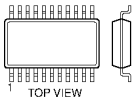
86pin SOP

MB94918RPF-G-102-BND



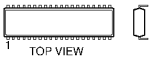
100pin SOP

MC74HC4066FEL
TLC2932IPW-E20



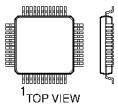
14pin SOP

MCZ3001D



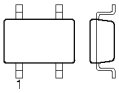
18pin QFP

MM1115XFBE



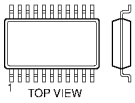
8pin SIP

MM1476AF(TP)



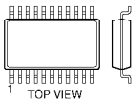
7pin CHIP

MSM5116400D-60SJR1



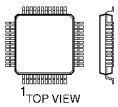
26pin SOP

MSM56V16160D-10



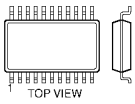
50pin SOP

MSP3410D-C5QA-B4



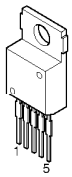
80pin QFP

JM319M-TE2
NJM3403AM(TE2)
PC74HC00D-T
PC74HC02D-T
TLC2933IPWR-12
U2861B-MFP-G3

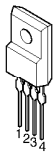


14pin SOP

PQ07VZ012P



PQ09RF11



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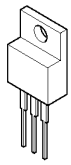
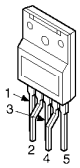
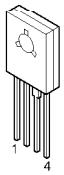


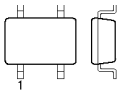
PQ1CG2032FZ



PQ30RV11
PQ30RV31

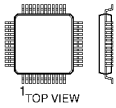


PST9120NL
TC7S02FU(TE85R)
TC7S14F(TE85R)
TC7SH00FU-TE85R
TC7SET00FU(TE85R)
TC7SET04FU(TE85R)
TC7SET08FU(TE85L)
TC7SH08FU-TE85R



5pin CHIP

SAB-C161PI-LM



100pin QFP

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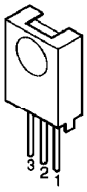
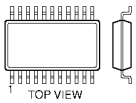


SDA5275-3PC02-22



68pin QFP

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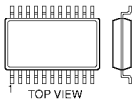
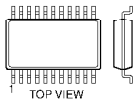
TC554001AF-70L(EL)



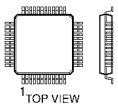
32pin SOP

TDA9178T/N1.118



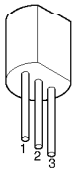
24pin SOP

TLC5733AIPM



64pin QFP

UPC1093J-1-T



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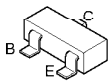
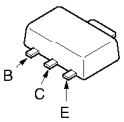
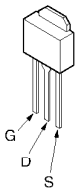
2PD601AR-115
2SA1037AK
2SA1037AK-T146-QR
2SA1037K-T146-R
2SB624-BV5
2SC2412K-T-146
2SC2412K-T-146-QR
2SD2114K
2SD596-DV5
DTA143EK
DTA144EKA-T146
DTC114EKA-T146
DTC114YKA-T146
DTC144EK-T146
DTC144EKA-T146



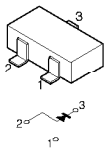
2SK2036(TE85L)



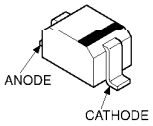
2SK2663



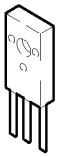
02CZ5.6-TE85L
MA3056M-TX
RD12M-T1B
RD15M-T1B2
RD5.6M-T1B2
RD5.6M-T1B3
RD6.8M-T1B2



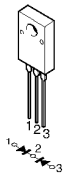
1SS355TE-17
DTZ-TT11-3.6
MA111-TX
MA113-(TX)
UDZ-TE-17-12B
UDZ-TE-17-3.9B
UDZ-TE-17-4.7B
UDZ-TE-17-6.8B
UDZS-TE17-8.2B



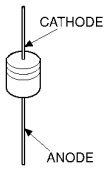
BAS216



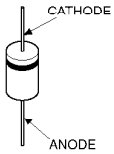
D10SC6M



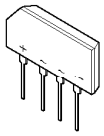
D1N20R-TR
D1NS4-TA2



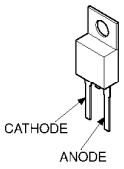
D1NL20U-TR
D2S6MTA1



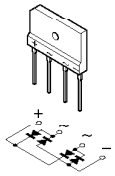
D2SB60A-F04



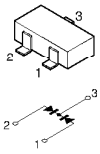
D5S4M



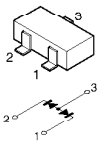
D6SB60L



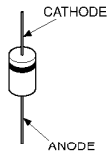
DAN202K-T-146



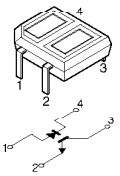
DAP202K-T-146



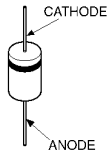
ERA22-08TP3



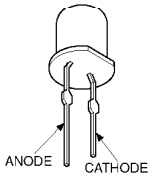
MA73-TW



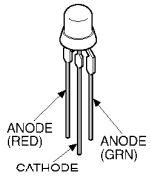
S2L60F
UF4005PKG23



TLR123



TLSG126



SECTION 5
EXPLODED VIEWS

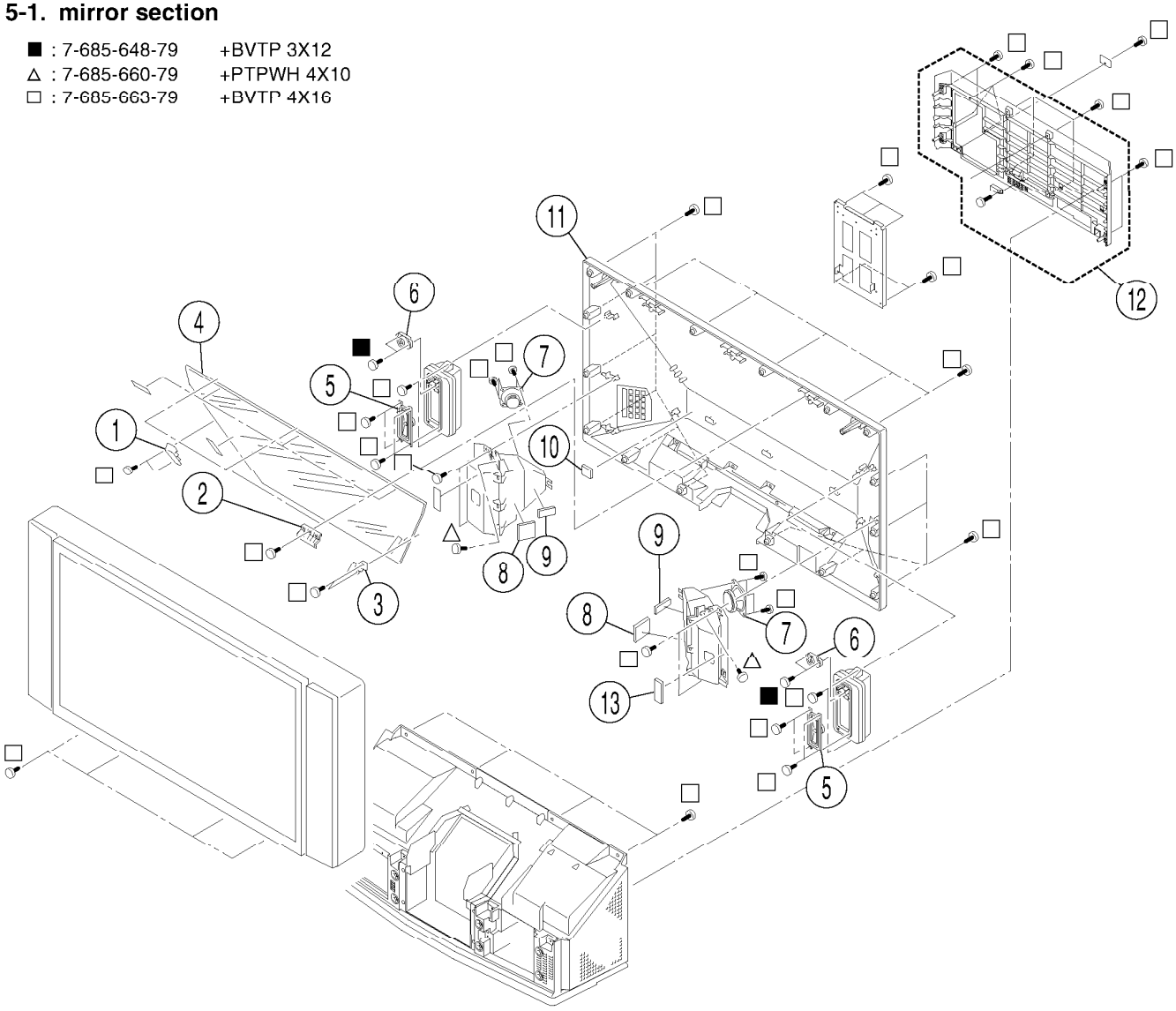
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critial for safety.
Replace only with part number specified.

5-1. mirror section

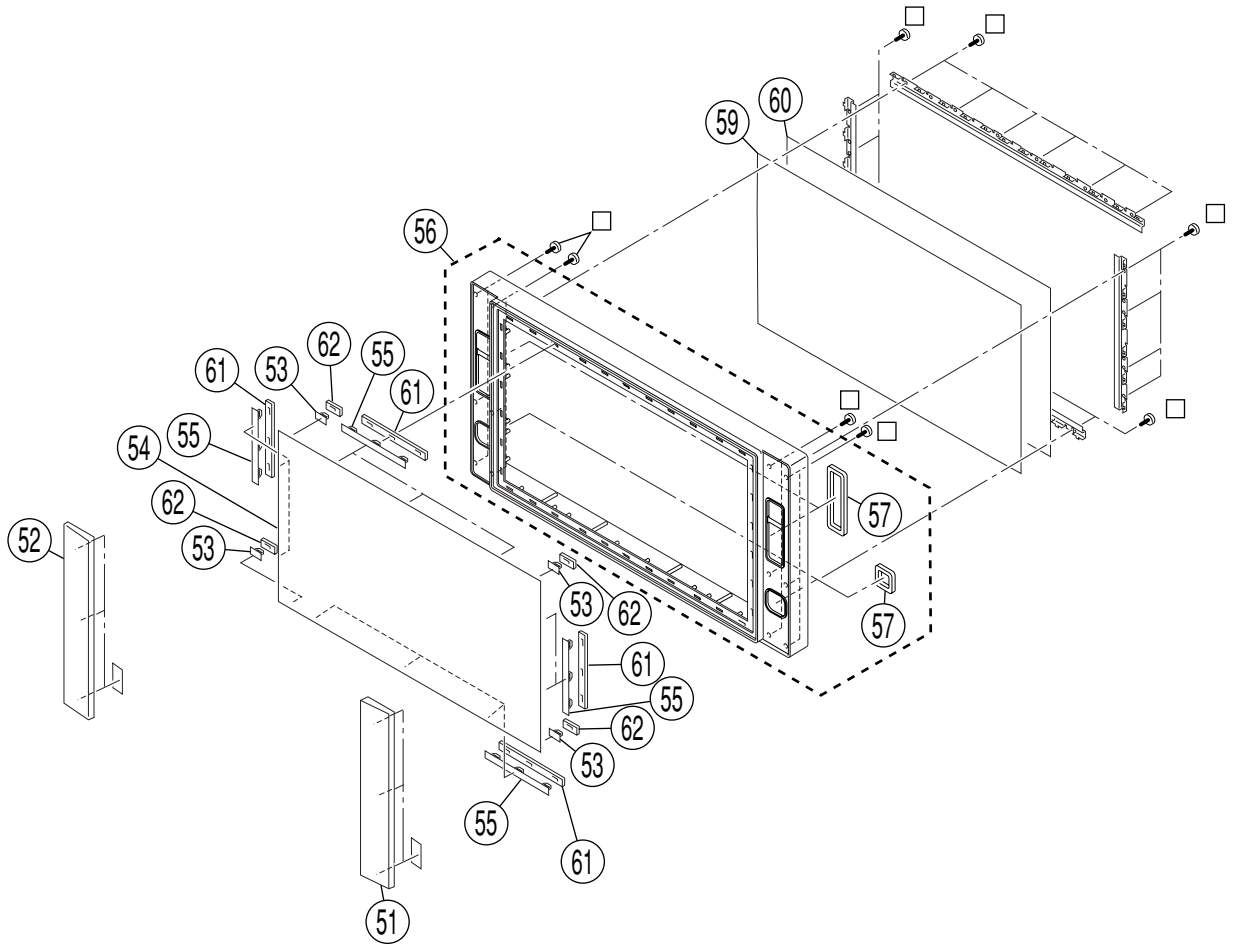
■ : 7-685-648-79 +BVTP 3X12
△ : 7-685-660-79 +PTPWH 4X10
□ : 7-685-663-79 +BVTP 4X16



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	* 4-077-752-01	HOLDER (L), MIRROR	
2	* 4-077-669-01	HOLDER (U), MIRROR	
3	* 4-077-731-01	HOLDER (R), MIRROR	
4	4-078-871-01	MIRROR (50)	
5	1-529-716-11	SPEAKER (13X7cm)	
6	1-529-715-11	SPEAKER (2cm)	
7	1-529-714-11	SPEAKER (10cm)	
8	4-078-395-01	DAMPER (1)	
9	4-078-396-01	DAMPER (2)	
10	4-078-847-01	CUSHION (HARNESS), SHIELD	
11	X-4038-216-1	COVER (50) ASSY, MIRROR	
12	X-4038-220-1	COVER ASSY, REAR	

5-2. SCREEN SECTION

□ : 7-685-663-79 +BVTP 4X16

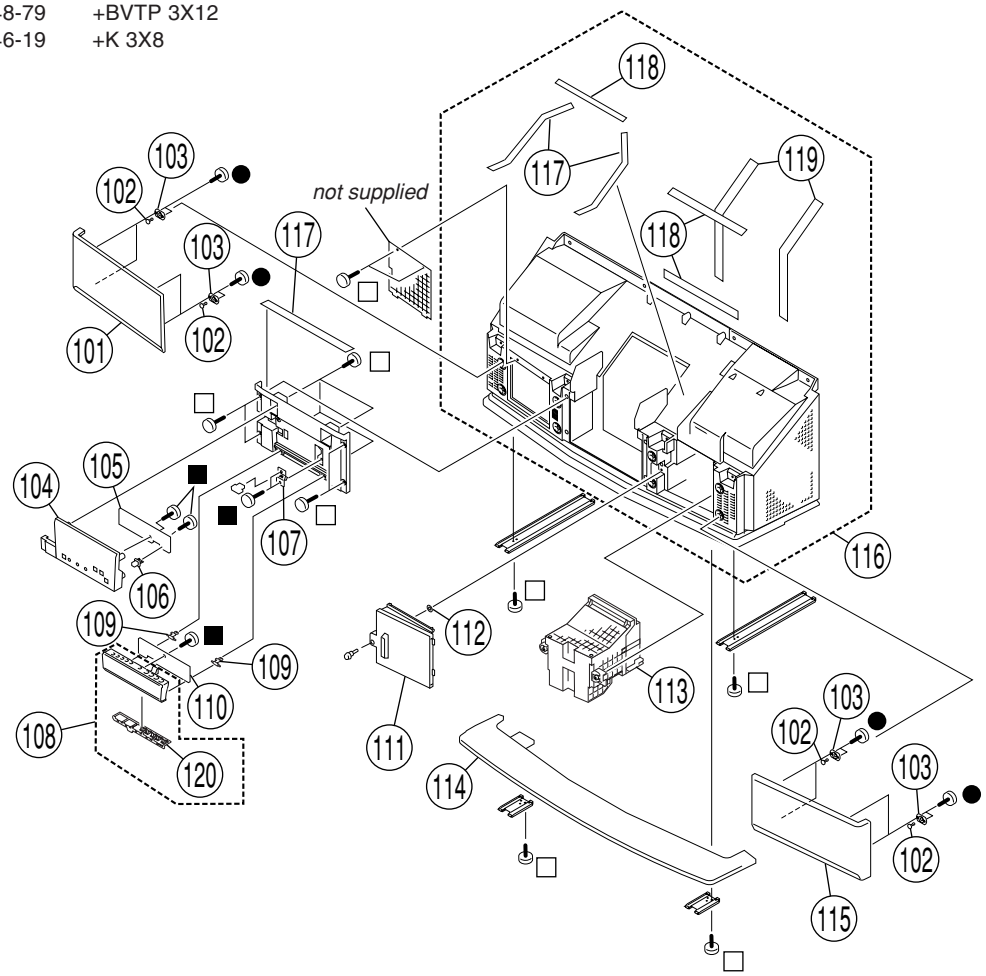


REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4038-214-1	GRILLE (50R) ASSY, SP	
52	X-4038-213-1	GRILLE (50L) ASSY, SP	
53	X-4038-016-1	HOLDER (S) ASSY, DP	
54	4-077-493-31	SCREEN (50), CONTRAST	
55	X-4038-008-1	HOLDER ASSY, DP	
56	X-4038-217-1	FRAME (50) ASSY, SCREEN	
57	4-078-837-02	CUSHION (B)	
59	4-077-491-11	PLATE (50L), DIFFUSION	
60	4-077-492-11	PLATE (50F), DIFFUSION	
61	4-078-851-01	SHEET (L), SHIELD	
62	4-078-852-01	SHEET (S), SHIELD	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

5-3. CABINET SECTION

□ : 7-685-663-79 +BVTP 4X16
■ : 7-685-648-79 +BVTP 3X12
● : 7-685-246-19 +K 3X8

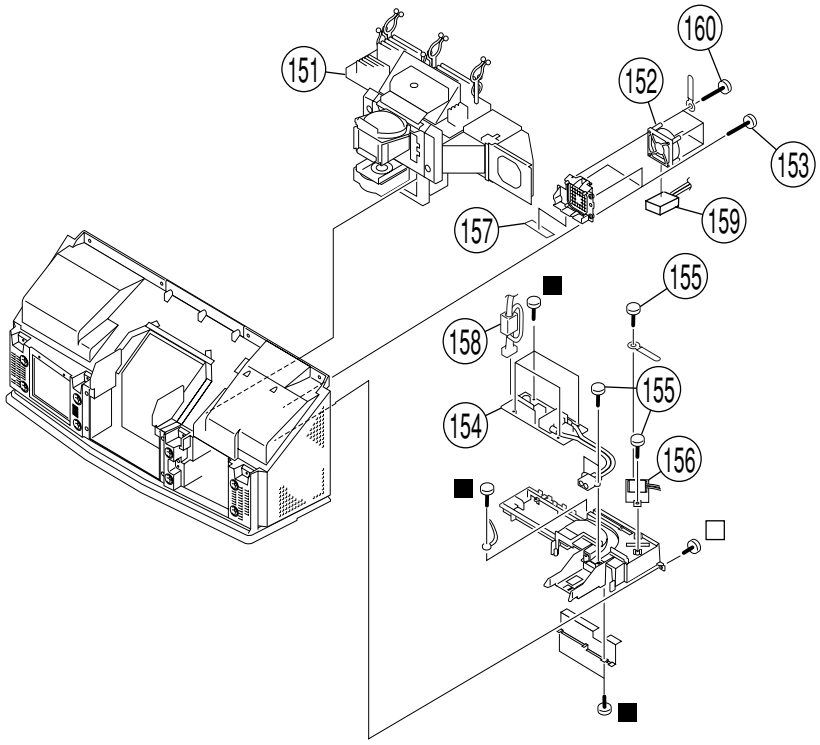


REF. NO.		PART NO.	DESCRIPTION	REMARK
101		4-078-883-01	COVER L (PAINTED), FRONT	
102		4-838-452-00	STRIKE	
103		4-838-453-00	SUPPORT	
104		A-1429-647-A	PANEL ASSY, INDICATION	
105		A-1372-847-A	H4 MOUNT	
106		4-081-301-01	BUTTON, POWER	
107		4-047-464-01	CATCHER, PUSH	
108		A-1429-646-A	PANEL ASSY, CONTROL	120
109		4-045-250-41	DAMPER	
110	*	A-1372-846-A	H2 MOUNT	
111		4-077-690-11	DOOR, LAMP	
112	*	3-650-537-00	WASHER	
113	⚠	A-1484-885-A	LAMP BLOCK ASSY	
114		4-077-691-01	PEDESTAL	
115		4-078-882-01	COVER R (PAINTED), FRONT	
116		X-4038-221-1	CABINET (50) ASSY	117-119
117		4-078-854-01	CUSHION (A)	
118		4-078-838-01	CUSHION (C)	
119		4-078-837-01	CUSHION (B)	
120		4-077-741-12	BUTTON, CONTROL	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

5-4. OPTICAL UNIT SECTION

■ : 7-685-648-79 +BVTP 3X12
□ : 7-685-663-79 +BVTP 4X16

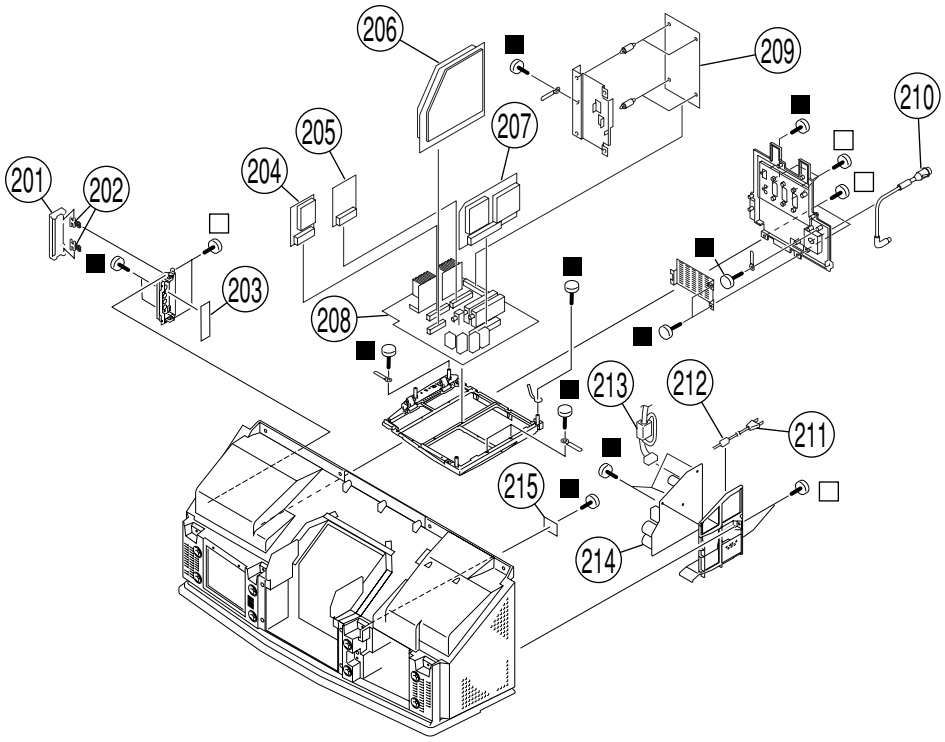


REF. NO.		PART NO.	DESCRIPTION	REMARK
151	⚠	A-1485-164-A	OPTICS UNIT BLOCK ASSY	
152	⚠	1-698-696-21	FAN, DC	
153		4-314-843-02	SCREW, TAPPING, +4X12	
154	⚠	1-468-510-11	POWER BLOCK	
155		4-029-432-11	SCREW (3X12), (+) BVWHTP	
156	⚠	1-419-965-11	COIL, CHOKE 27.0mH	
157	*	4-078-590-11	TAPE	
158		1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
159	⚠	1-900-253-70	THERMOSTAT	
160		4-306-021-03	SCREW (+P4X35)	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

5-5. CHASSIS SECTION

■ : 7-685-648-79 +BVTP 3X12
□ : 7-685-663-79 +BVTP 4X16



REF. NO.	PART NO.	DESCRIPTION	REMARK
201	4-077-732-11	LID, H1	
202	3-703-035-11	SHAFT, LID	
203	* A-1372-879-A	H1 BOARD, COMPLETE	
204	* A-1395-005-A	S BOARD, COMPLETE	
205	* A-1395-017-A	N BOARD, COMPLETE	
206	* A-1136-121-A	BB BOARD, COMPLETE	
207	* A-1306-594-A	M BOARD, COMPLETE	
208	* A-1299-289-A	A BOARD, COMPLETE	
209	* A-1395-006-A	J BOARD, COMPLETE	
210	1-790-082-11	CABLE, RF	
211	⚠ 1-765-286-11	CORD, POWER (50SX100/50SX100K)	
211	⚠ 1-776-204-11	CORD, POWER (50SX100U)	
212	4-065-070-01	HOLDER, AC CORD	
213	1-543-982-11	CORE, FERRITE	
214	* A-1316-525-A	G BOARD, COMPLETE	
215	* A-1391-060-A	T BOARD, COMPLETE	

SECTION 6
ELECTRICAL PARTS LIST

A

The components identified by shading and mark ⚠ are critial for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- CAPACITORS
PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1299-289-A	A BOARD, COMPLETE			
		**********			
*	1-555-110-00	CABLE, PIN			
	4-202-373-01	SPRING, IC			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C1001	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1002	1-163-227-11	CERAMIC CHIP	10pF		50V
C1003	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1004	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1005	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C1006	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1301	1-126-934-11	ELECT	220μF	20%	10V
C1302	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1304	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1305	1-126-934-11	ELECT	220μF	20%	10V
C1306	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1307	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1308	1-126-933-11	ELECT	100μF	20%	16V
C1312	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C1313	1-126-933-11	ELECT	100μF	20%	16V
C1314	1-104-664-11	ELECT	47μF	20%	16V
C1315	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C1316	1-126-235-11	ELECT	100μF	20%	10V
C1319	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C1401	1-130-777-00	MYLAR	0.1μF	5%	63V
C1402	1-130-777-00	MYLAR	0.1μF	5%	63V
C1403	1-130-777-00	MYLAR	0.1μF	5%	63V
C1404	1-130-777-00	MYLAR	0.1μF	5%	63V
C1405	1-104-664-11	ELECT	47μF	20%	16V
C1409	1-136-165-00	FILM	0.1μF	5%	50V
C1410	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C1411	1-126-933-11	ELECT	100μF	20%	16V
C1412	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C1413	1-126-967-11	ELECT	47μF	20%	50V
C1414	1-126-967-11	ELECT	47μF	20%	50V
C1415	1-126-967-11	ELECT	47μF	20%	50V
C1416	1-126-967-11	ELECT	47μF	20%	50V
C1417	1-126-967-11	ELECT	47μF	20%	50V
C1418	1-126-967-11	ELECT	47μF	20%	50V
C1419	1-164-222-11	CERAMIC CHIP	0.22μF		25V
C1420	1-164-222-11	CERAMIC CHIP	0.22μF		25V
C1421	1-164-222-11	CERAMIC CHIP	0.22μF		25V
C1422	1-164-222-11	CERAMIC CHIP	0.22μF		25V
C1423	1-164-222-11	CERAMIC CHIP	0.22μF		25V
C1424	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C1425	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1426	1-163-113-00	CERAMIC CHIP	68pF	5%	50V
C1427	1-163-113-00	CERAMIC CHIP	68pF	5%	50V
C1428	1-163-113-00	CERAMIC CHIP	68pF	5%	50V
C1901	1-104-664-11	ELECT	47μF	20%	25V
C1902	1-163-038-11	CERAMIC CHIP	0.1μF		25V
C1904	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C1905	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1911	1-126-933-11	ELECT	100μF	20%	16V
C1914	1-126-933-11	ELECT	100μF	20%	16V
C1915	1-126-964-11	ELECT	10μF	20%	50V
C1920	1-109-889-11	ELECT	1μF	20%	50V
C1921	1-126-926-11	ELECT	1000μF	20%	10V
C1923	1-126-767-11	ELECT	1000μF	20%	16V
C1924	1-163-257-11	CERAMIC CHIP	180pF	5%	50V
C1925	1-163-257-11	CERAMIC CHIP	180pF	5%	50V
C1926	1-163-257-11	CERAMIC CHIP	180pF	5%	50V
C1928	1-126-933-11	ELECT	100μF	20%	16V
C1931	1-104-665-11	ELECT	100μF	20%	25V
C1932	1-104-665-11	ELECT	100μF	20%	25V
C1933	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1934	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1940	1-164-344-11	CERAMIC CHIP	0.068μF	10%	25V
C1941	1-104-664-11	ELECT	47μF	20%	25V
C1942	1-104-664-11	ELECT	47μF	20%	25V
C1943	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1944	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C1952	1-104-665-11	ELECT	100μF	20%	25V
C1953	1-126-941-11	ELECT	470μF	20%	25V
C1956	1-109-889-11	ELECT	1μF	20%	50V
C1957	1-126-964-11	ELECT	10μF	20%	50V
C1958	1-126-933-11	ELECT	100μF	20%	16V
C1960	1-126-916-11	ELECT	1000μF	20%	6.3V
C1962	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C1963	1-126-960-11	ELECT	1μF	20%	50V
C1974	1-104-664-11	ELECT	47μF	20%	25V
C1975	1-104-664-11	ELECT	47μF	20%	25V
C1980	1-126-941-11	ELECT	470μF	20%	25V
C1982	1-109-889-11	ELECT	1μF	20%	50V
C1990	1-126-926-11	ELECT	1000μF	20%	10V
C1992	1-126-935-11	ELECT	470μF	20%	16V
C2005	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C2006	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C2007	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V

A

REF. NO.	PART NO.	DESCRIPTION			REMARK
C2008	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C2020	1-126-941-11	ELECT	470µF	20%	25V
C2021	1-126-964-11	ELECT	10µF	20%	50V
C2022	1-126-964-11	ELECT	10µF	20%	50V
C2023	1-126-964-11	ELECT	10µF	20%	50V
C2024	1-126-964-11	ELECT	10µF	20%	50V
C2025	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C2026	1-137-374-11	MYLAR	0.047µF	5%	50V
C2027	1-137-374-11	MYLAR	0.047µF	5%	50V
C2028	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C2029	1-126-960-11	ELECT	1µF	20%	50V
C2031	1-137-374-11	MYLAR	0.047µF	5%	50V
C2032	1-137-374-11	MYLAR	0.047µF	5%	50V
C2033	1-126-964-11	ELECT	10µF	20%	50V
C2034	1-126-960-11	ELECT	1µF	20%	50V
C2035	1-126-965-11	ELECT	22µF	20%	50V
C2036	1-126-965-11	ELECT	22µF	20%	50V
C2037	1-126-964-11	ELECT	10µF	20%	50V
C2038	1-126-964-11	ELECT	10µF	20%	50V
C2039	1-126-964-11	ELECT	10µF	20%	50V
C2040	1-126-964-11	ELECT	10µF	20%	50V
C2041	1-126-964-11	ELECT	10µF	20%	50V
C2042	1-126-964-11	ELECT	10µF	20%	50V
C2045	1-107-703-11	ELECT	220µF	20%	25V
C2046	1-107-703-11	ELECT	220µF	20%	25V
C2051	1-136-165-00	FILM	0.1µF	5%	50V
C2052	1-136-165-00	FILM	0.1µF	5%	50V
C2053	1-136-165-00	FILM	0.1µF	5%	50V
C2054	1-136-165-00	FILM	0.1µF	5%	50V
C2055	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C2056	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C2057	1-128-548-11	ELECT	4700µF	20%	25V
C2058	1-128-548-11	ELECT	4700µF	20%	25V
C2059	1-126-935-11	ELECT	470µF	20%	16V

<CONNECTOR>

CN1001	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P
CN1201	1-783-967-11	CONNECTOR, BOARD TO BOARD 30P
CN1202	1-783-967-11	CONNECTOR, BOARD TO BOARD 30P
CN1665	1-695-915-11	TAB (CONTACT)
CN1701	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P
CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P
CN1901	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P
CN1904*	1-564-515-11	PLUG, CONNECTOR 12P
CN1905*	1-564-512-11	PLUG, CONNECTOR 9P
CN1906*	1-564-506-11	PLUG, CONNECTOR 3P
CN1907*	1-764-333-11	PLUG, CONNECTOR 10P
CN1908	1-764-334-11	PLUG, CONNECTOR 11P
CN1914*	1-564-512-11	PLUG, CONNECTOR 9P
CN1915*	1-564-511-61	PLUG, CONNECTOR 8P
CN1917*	1-564-508-11	PLUG, CONNECTOR 5P
CN1918*	1-564-509-11	PLUG, CONNECTOR 6P
CN1922	1-764-812-11	CONNECTOR, BOARD TO BOARD 11P
CN1924*	1-764-333-11	PLUG, CONNECTOR 10P
CN1925*	1-564-506-11	PLUG, CONNECTOR 3P
CN1926*	1-580-838-11	PIN, CONNECTOR (PC BOARD) 4P
CN2002*	1-564-511-11	PLUG, CONNECTOR 8P
CN2003*	1-564-510-11	PLUG, CONNECTOR 7P

<COMPOSITION CIRCUIT BLOCK>

CP1301	1-251-658-11	SPLITTER RF

<DIODE>

D1108	8-719-988-61	DIODE 1SS355TE-17
D1109	8-719-988-61	DIODE 1SS355TE-17
D1301	8-719-158-49	DIODE UDZ-TE-17-12B
D1302	8-719-158-49	DIODE UDZ-TE-17-12B
D1303	8-719-158-49	DIODE UDZ-TE-17-12B
D1304	8-719-158-49	DIODE UDZ-TE-17-12B
D1401	8-719-914-43	DIODE DAN202K-T-146
D1901	8-719-073-01	DIODE MA111-TX
D1902	8-719-073-01	DIODE MA111-TX
D1903	8-719-106-17	DIODE RD6.8M-T1B2
D1906	8-719-025-31	DIODE 02CZ5.6-TE85L
D1907	8-719-073-01	DIODE MA111-TX
D1908	8-719-073-01	DIODE MA111-TX
D1909	8-719-073-01	DIODE MA111-TX
D1910	8-719-073-01	DIODE MA111-TX
D1911	8-719-073-01	DIODE MA111-TX
D1912	8-719-073-01	DIODE MA111-TX
D1913	8-719-073-01	DIODE MA111-TX
D1914	8-719-073-01	DIODE MA111-TX
D1918	8-719-073-01	DIODE MA111-TX
D1919	8-719-914-43	DIODE DAN202K-T-146
D1920	8-719-073-01	DIODE MA111-TX
D1921	8-719-073-01	DIODE MA111-TX
D1926	8-719-073-01	DIODE MA111-TX
D1933	8-719-500-70	DIODE D5S4M
D2001	8-719-073-01	DIODE MA111-TX
D2002	8-719-988-61	DIODE 1SS355TE-17
D2003	8-719-157-54	DIODE RD12M-T1B
D2004	8-719-157-54	DIODE RD12M-T1B
D2005	8-719-073-01	DIODE MA111-TX
D2006	8-719-073-01	DIODE MA111-TX
D2007	8-719-914-43	DIODE DAN202K-T-146
D2008	8-719-914-43	DIODE DAN202K-T-146
D2009	8-719-914-43	DIODE DAN202K-T-146
D2010	8-719-914-43	DIODE DAN202K-T-146
D2011	8-719-914-43	DIODE DAN202K-T-146
D2013	8-719-914-43	DIODE DAN202K-T-146

<FILTER>

FL1301	1-233-435-11	FILTER, LOW PASS
FL1302	1-233-436-11	FILTER, LOW PASS
FL1303	1-233-436-11	FILTER, LOW PASS
FL1401	1-236-071-11	ENCAPSULATED COMPONENT

<IC>

IC1001	8-759-285-52	IC PC74HC02D-T

A

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1002	8-759-285-51	IC PC74HC00D-T	
IC1003	8-759-037-79	IC SN74HC163ANS	
IC1004	8-752-072-94	IC CXA1875AM-T4	
IC1005	8-759-037-79	IC SN74HC163ANS	
IC1006	8-759-084-79	IC TC7S14F(TE85R)	
IC1007	8-759-084-79	IC TC7S14F(TE85R)	
IC1401	8-752-072-94	IC CXA1875AM-T4	
IC1402	8-752-067-36	IC CXA1815S	
IC1405	8-759-242-74	IC TC7W04F(TE12R)	
IC1901	8-759-442-07	IC LM75CIMX-5	
IC1902	8-752-072-94	IC CXA1875AM-T4	
IC1903	8-759-284-06	IC PQ30RV31	
IC1904	8-759-198-03	IC PQ09RF21	
IC1905	8-759-663-29	IC MM1476AF(TP)	
IC1907	8-759-098-24	IC PQ30RV11	
IC1908	8-759-098-24	IC PQ30RV11	
IC1910	8-759-098-24	IC PQ30RV11	
IC1911	8-759-284-06	IC PQ30RV31	
IC1912	8-759-054-12	IC PQ09RF11	
IC1913	8-759-640-19	IC PQ1CG2032FZ	
IC2002	8-759-100-96	IC NJM4558M-TE2	
IC2003	8-759-590-05	IC TDA7269A	
IC2004	8-759-590-05	IC TDA7269A	
		<CHIP CONDUCTOR>	
JR2006	1-216-295-11	SHORT 0	
JR2007	1-216-295-11	SHORT 0	
		<COIL>	
L1301	1-408-603-31	INDUCTOR 10µH	
L1302	1-408-603-31	INDUCTOR 10µH	
L1303	1-408-603-31	INDUCTOR 10µH	
L1306	1-410-687-11	INDUCTOR 1.2mH	
L1908	1-406-662-11	INDUCTOR 33µH	
		<TRANSISTOR>	
Q1103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1104	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1201	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1301	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1303	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1304	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1305	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1306	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1307	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1308	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1309	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1310	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1311	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1312	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1313	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1314	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1315	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1316	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1317	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1318	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1319	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1320	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1321	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1401	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1402	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1403	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1404	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1405	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1406	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1407	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1408	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1409	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1410	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1411	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1412	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1413	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1414	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1415	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1416	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1417	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1901	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1902	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1903	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1904	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1905	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1906	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1907	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1908	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q1910	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1911	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1912	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q1913	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q1914	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q1915	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q2001	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2002	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2003	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q2004	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2005	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2006	8-729-027-55	TRANSISTOR DTC143EKA-T146	
Q2007	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2008	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2009	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2010	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2011	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2012	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q2013	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2014	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2015	8-729-026-50	TRANSISTOR 2SA1037K-T-146-QR	
Q2017	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q2019	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	

A

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R1001	1-216-295-11	SHORT	0		
R1002	1-216-295-11	SHORT	0		
R1003	1-216-295-11	SHORT	0		
R1004	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1005	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1006	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1007	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1008	1-216-295-11	SHORT	0		
R1009	1-216-295-11	SHORT	0		
R1010	1-216-295-11	SHORT	0		
R1011	1-216-295-11	SHORT	0		
R1012	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1013	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1015	1-216-295-11	SHORT	0		
R1016	1-216-295-11	SHORT	0		
R1018	1-216-017-91	RES-CHIP	47	5%	1/10W
R1019	1-216-017-91	RES-CHIP	47	5%	1/10W
R1022	1-216-295-11	SHORT	0		
R1023	1-216-295-11	SHORT	0		
R1107	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1108	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1109	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1110	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1111	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1123	1-249-381-11	CARBON	1	5%	1/4W
R1223	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1224	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1231	1-216-295-11	SHORT	0		
R1232	1-216-295-11	SHORT	0		
R1233	1-216-295-11	SHORT	0		
R1234	1-216-295-11	SHORT	0		
R1301	1-216-041-00	RES-CHIP	470	5%	1/10W
R1302	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1303	1-216-025-11	RES-CHIP	100	5%	1/10W
R1304	1-216-025-11	RES-CHIP	100	5%	1/10W
R1305	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1306	1-216-025-11	RES-CHIP	100	5%	1/10W
R1307	1-216-041-00	RES-CHIP	470	5%	1/10W
R1308	1-216-075-00	RES-CHIP	12K	5%	1/10W
R1309	1-216-041-00	RES-CHIP	470	5%	1/10W
R1310	1-216-041-00	RES-CHIP	470	5%	1/10W
R1311	1-216-001-00	RES-CHIP	10	5%	1/10W
R1312	1-216-025-11	RES-CHIP	100	5%	1/10W
R1313	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R1314	1-216-041-00	RES-CHIP	470	5%	1/10W
R1315	1-216-041-00	RES-CHIP	470	5%	1/10W
R1316	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1317	1-216-041-00	RES-CHIP	470	5%	1/10W
R1318	1-216-043-91	RES-CHIP	560	5%	1/10W
R1319	1-216-025-11	RES-CHIP	100	5%	1/10W
R1320	1-216-041-00	RES-CHIP	470	5%	1/10W
R1321	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1322	1-216-025-11	RES-CHIP	100	5%	1/10W
R1323	1-216-025-11	RES-CHIP	100	5%	1/10W
R1324	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1325	1-216-041-00	RES-CHIP	470	5%	1/10W
R1326	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1327	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1328	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1329	1-216-295-11	SHORT	0		
R1330	1-216-295-11	SHORT	0		
R1331	1-216-295-11	SHORT	0		
R1332	1-216-295-11	SHORT	0		
R1333	1-216-045-00	RES-CHIP	680	5%	1/10W
R1334	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R1335	1-216-295-11	SHORT	0		
R1336	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R1337	1-216-043-91	RES-CHIP	560	5%	1/10W
R1338	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1339	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R1340	1-216-295-11	SHORT	0		
R1341	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R1342	1-216-041-00	RES-CHIP	470	5%	1/10W
R1343	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1344	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R1345	1-216-295-11	SHORT	0		
R1346	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R1347	1-216-041-00	RES-CHIP	470	5%	1/10W
R1348	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R1349	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R1350	1-216-633-11	METAL CHIP	180	0.5%	1/10W
R1351	1-216-041-00	RES-CHIP	470	5%	1/10W
R1352	1-216-041-00	RES-CHIP	470	5%	1/10W
R1353	1-216-025-11	RES-CHIP	100	5%	1/10W
R1354	1-216-041-00	RES-CHIP	470	5%	1/10W
R1355	1-216-041-00	RES-CHIP	470	5%	1/10W
R1356	1-216-025-11	RES-CHIP	100	5%	1/10W
R1369	1-216-295-11	SHORT	0		
R1371	1-216-295-11	SHORT	0		
R1372	1-216-017-91	RES-CHIP	47	5%	1/10W
R1373	1-216-085-00	RES-CHIP	33K	5%	1/10W
R1375	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1401	1-216-029-00	RES-CHIP	150	5%	1/10W
R1402	1-216-027-00	RES-CHIP	120	5%	1/10W
R1403	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1405	1-216-025-11	RES-CHIP	100	5%	1/10W
R1406	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1407	1-216-017-91	RES-CHIP	47	5%	1/10W
R1408	1-216-017-91	RES-CHIP	47	5%	1/10W
R1409	1-216-025-11	RES-CHIP	100	5%	1/10W
R1410	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1411	1-216-025-11	RES-CHIP	100	5%	1/10W
R1412	1-216-025-11	RES-CHIP	100	5%	1/10W
R1413	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1414	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1415	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1416	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1417	1-216-017-91	RES-CHIP	47	5%	1/10W
R1418	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1419	1-216-041-00	RES-CHIP	470	5%	1/10W
R1420	1-216-041-00	RES-CHIP	470	5%	1/10W
R1421	1-216-025-11	RES-CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R1422	1-216-295-11	SHORT	0		
R1423	1-216-025-11	RES-CHIP	100	5%	1/10W
R1424	1-216-017-91	RES-CHIP	47	5%	1/10W
R1425	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1426	1-216-017-91	RES-CHIP	47	5%	1/10W
R1427	1-216-041-00	RES-CHIP	470	5%	1/10W
R1428	1-216-041-00	RES-CHIP	470	5%	1/10W
R1429	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1430	1-216-017-91	RES-CHIP	47	5%	1/10W
R1431	1-216-017-91	RES-CHIP	47	5%	1/10W
R1432	1-216-041-00	RES-CHIP	470	5%	1/10W
R1433	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1434	1-216-041-00	RES-CHIP	470	5%	1/10W
R1435	1-216-017-91	RES-CHIP	47	5%	1/10W
R1436	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1437	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1442	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1443	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1444	1-216-025-11	RES-CHIP	100	5%	1/10W
R1445	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1446	1-216-025-11	RES-CHIP	100	5%	1/10W
R1447	1-216-025-11	RES-CHIP	100	5%	1/10W
R1448	1-216-025-11	RES-CHIP	100	5%	1/10W
R1449	1-216-025-11	RES-CHIP	100	5%	1/10W
R1450	1-216-017-91	RES-CHIP	47	5%	1/10W
R1451	1-216-017-91	RES-CHIP	47	5%	1/10W
R1454	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1456	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1457	1-216-025-11	RES-CHIP	100	5%	1/10W
R1458	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1459	1-216-025-11	RES-CHIP	100	5%	1/10W
R1462	1-216-295-11	SHORT	0		
R1463	1-216-017-91	RES-CHIP	47	5%	1/10W
R1464	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1465	1-216-017-91	RES-CHIP	47	5%	1/10W
R1466	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1467	1-216-017-91	RES-CHIP	47	5%	1/10W
R1468	1-216-041-00	RES-CHIP	470	5%	1/10W
R1469	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1470	1-216-029-00	RES-CHIP	150	5%	1/10W
R1471	1-216-021-00	RES-CHIP	68	5%	1/10W
R1472	1-216-045-00	RES-CHIP	680	5%	1/10W
R1473	1-216-029-00	RES-CHIP	150	5%	1/10W
R1474	1-216-025-11	RES-CHIP	100	5%	1/10W
R1475	1-216-045-00	RES-CHIP	680	5%	1/10W
R1901	1-216-025-11	RES-CHIP	100	5%	1/10W
R1902	1-216-017-91	RES-CHIP	47	5%	1/10W
R1903	1-216-017-91	RES-CHIP	47	5%	1/10W
R1904	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1905	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1906	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1907	1-216-025-11	RES-CHIP	100	5%	1/10W
R1908	1-216-025-11	RES-CHIP	100	5%	1/10W
R1909	1-216-025-11	RES-CHIP	100	5%	1/10W
R1910	1-216-025-11	RES-CHIP	100	5%	1/10W
R1911	1-216-065-91	RES-CHIP	4.7K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1912	1-216-295-11	SHORT	0		
R1913	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1914	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1915	1-216-295-11	SHORT	0		
R1916	1-216-295-11	SHORT	0		
R1917	1-216-295-11	SHORT	0		
R1918	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R1919	1-216-295-11	SHORT	0		
R1920	1-216-295-11	SHORT	0		
R1921	1-216-295-11	SHORT	0		
R1922	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1923	1-218-754-11	METAL CHIP	120K	0.5%	1/10W
R1924	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R1926	1-216-295-11	SHORT	0		
R1927	1-216-295-11	SHORT	0		
R1928	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1929	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1930	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1932	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1933	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R1934	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R1935	1-216-295-11	SHORT	0		
R1936	1-216-295-11	SHORT	0		
R1937	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R1938	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R1940	1-216-395-00	METAL OXIDE	3.3	5%	3W
R1941	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R1942	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R1943	1-216-295-11	SHORT	0		
R1944	1-216-295-11	SHORT	0		
R1945	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R1947	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R1948	1-216-037-00	RES-CHIP	330	5%	1/10W
R1949	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1950	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1951	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1952	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1953	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1954	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1955	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1956	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1957	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1958	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1959	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1960	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1961	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1962	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1963	1-216-697-91	METAL CHIP	82K	0.5%	1/10W
R1964	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R1965	1-218-754-11	METAL CHIP	120K	0.5%	1/10W
R1966	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1967	1-216-295-11	SHORT	0		
R1970	1-216-017-91	RES-CHIP	47	5%	1/10W
R1971	1-216-017-91	RES-CHIP	47	5%	1/10W
R1972	1-216-656-11	METAL CHIP	1.6K	0.5%	1/10W
R1973	1-216-644-11	METAL CHIP	510	0.5%	1/10W
R1975	1-216-049-11	RES-CHIP	1K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R1976	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1977	1-218-754-11	METAL CHIP	120K	0.5%	1/10W
R1978	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R1979	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R1983	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R1993	1-216-295-11	SHORT	0		
R1994	1-216-295-11	SHORT	0		
R1995	1-216-295-11	SHORT	0		
R1996	1-216-295-11	SHORT	0		
R1997	1-216-295-11	SHORT	0		
R2005	1-216-089-11	RES-CHIP	47K	5%	1/10W
R2006	1-216-619-11	RES-CHIP	47	5%	1/10W
R2007	1-216-619-11	RES-CHIP	47	5%	1/10W
R2008	1-240-067-21	RES-CHIP	470	5%	1/10W
R2009	1-240-067-21	RES-CHIP	470	5%	1/10W
R2010	1-216-039-00	RES-CHIP	390	5%	1/10W
R2011	1-218-776-11	RES-CHIP	1M	5%	1/10W
R2012	1-218-776-11	RES-CHIP	1M	5%	1/10W
R2013	1-240-090-21	RES-CHIP	39K	5%	1/10W
R2014	1-240-090-21	RES-CHIP	39K	5%	1/10W
R2015	1-216-039-00	RES-CHIP	390	5%	1/10W
R2016	1-240-090-21	RES-CHIP	39K	5%	1/10W
R2017	1-240-090-21	RES-CHIP	39K	5%	1/10W
R2018	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2019	1-216-675-11	RES-CHIP	10K	5%	1/10W
R2020	1-216-675-11	RES-CHIP	10K	5%	1/10W
R2021	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2022	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2023	1-216-033-00	RES-CHIP	220	5%	1/10W
R2024	1-216-675-11	RES-CHIP	10K	5%	1/10W
R2025	1-216-033-00	RES-CHIP	220	5%	1/10W
R2026	1-216-675-11	RES-CHIP	10K	5%	1/10W
R2027	1-216-089-11	RES-CHIP	47K	5%	1/10W
R2028	1-216-647-11	RES-CHIP	680	5%	1/10W
R2029	1-216-647-11	RES-CHIP	680	5%	1/10W
R2030	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2031	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2032	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2033	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2034	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2035	1-240-079-21	RES-CHIP	4.7K	5%	1/10W
R2036	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2037	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2038	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2039	1-240-079-21	RES-CHIP	4.7K	5%	1/10W
R2040	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2041	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2043	1-240-068-21	RES-CHIP	560	5%	1/10W
R2044	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2045	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2046	1-240-068-21	RES-CHIP	560	5%	1/10W
R2047	1-216-025-11	RES-CHIP	100	5%	1/10W
R2049	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2050	1-216-089-11	RES-CHIP	47K	5%	1/10W
R2051	1-216-295-11	SHORT	0		
R2052	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2053	1-216-678-11	METAL CHIP	13K	0.5%	1/10W
R2054	1-240-068-21	RES-CHIP	560	5%	1/10W
R2055	1-216-678-11	METAL CHIP	13K	0.5%	1/10W
R2056	1-240-068-21	RES-CHIP	560	5%	1/10W
R2057	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2058	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2059	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2060	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2061	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2062	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2063	1-216-295-11	SHORT	0		
R2064	1-216-085-00	RES-CHIP	33K	5%	1/10W
R2065	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2066	1-216-089-11	RES-CHIP	47K	5%	1/10W
R2068	1-216-089-11	RES-CHIP	47K	5%	1/10W
R2069	1-216-295-11	SHORT	0		
R2071	1-216-089-11	RES-CHIP	47K	5%	1/10W
R2072	1-216-089-11	RES-CHIP	47K	5%	1/10W
R2073	1-216-357-00	METAL OXIDE	4.7	5%	1W
R2074	1-216-357-00	METAL OXIDE	4.7	5%	1W
R2075	1-216-357-00	METAL OXIDE	4.7	5%	1W
R2076	1-216-357-00	METAL OXIDE	4.7	5%	1W
R2077	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2082	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2607	1-216-025-11	RES-CHIP	100	5%	1/10W

<RELAY>

RY1101	1-755-028-11	RELAY	
RY1102	1-755-028-11	RELAY	

<TUNER>

TU1301	1-693-340-21	TUNER/VIF	
TU1302	1-693-340-21	TUNER/VIF	

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* A-1136-121-A BB BOARD, COMPLETE
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	3-701-809-21	SCREW, TERMINAL (M3X6)			

<CAPACITOR>

C301	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C302	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C303	1-126-204-11	ELECT CHIP	47µF	20%	16V
C304	1-126-204-11	ELECT CHIP	47µF	20%	16V
C305	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C306	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C307	1-126-204-11	ELECT CHIP	47µF	20%	16V
C308	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C310	1-124-779-00	ELECT CHIP	10µF	20%	16V
C312	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C313	1-163-038-11	CERAMIC CHIP	0.1µF		25V

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C315	1-126-204-11	ELECT CHIP	47µF	20%	16V
C316	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C317	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C318	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C319	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C320	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C321	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C322	1-126-204-11	ELECT CHIP	47µF	20%	16V
C323	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C324	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C325	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C326	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C327	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C328	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C329	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C330	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C331	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C332	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C333	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C334	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C335	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C336	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C337	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C338	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C339	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C340	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C341	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C342	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C343	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C344	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C345	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C346	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C347	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C348	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C349	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C350	1-126-204-11	ELECT CHIP	47µF	20%	16V
C351	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C352	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C353	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C354	1-126-204-11	ELECT CHIP	47µF	20%	16V
C355	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C356	1-126-603-11	ELECT CHIP	4.7µF	20%	35V
C357	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C358	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C359	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C360	1-126-204-11	ELECT CHIP	47µF	20%	16V
C361	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C362	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C363	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C364	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C365	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C366	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C367	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C368	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C369	1-126-204-11	ELECT CHIP	47µF	20%	16V
C370	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C371	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C372	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C373	1-126-204-11	ELECT CHIP	47µF	20%	16V
C376	1-104-601-11	ELECT CHIP	10µF	20%	10V
C378	1-104-601-11	ELECT CHIP	10µF	20%	10V
C379	1-104-601-11	ELECT CHIP	10µF	20%	10V
C380	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C381	1-124-779-00	ELECT CHIP	10µF	20%	16V
C385	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C386	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C401	1-124-779-00	ELECT CHIP	10µF	20%	16V
C402	1-124-779-00	ELECT CHIP	10µF	20%	16V
C403	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C404	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C405	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C406	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C407	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C408	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C409	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C410	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C411	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C412	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C413	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C414	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C415	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C416	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C417	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C418	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C419	1-163-012-00	CERAMIC CHIP	0.0018µF	5%	50V
C420	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C421	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C422	1-126-204-11	ELECT CHIP	47µF	20%	16V
C424	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C425	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C426	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C427	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C428	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C429	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C430	1-163-019-00	CERAMIC CHIP	0.0068µF	10%	50V
C431	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C432	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C433	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C434	1-126-204-11	ELECT CHIP	47µF	20%	16V
C435	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C437	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C503	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C504	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C509	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C510	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C512	1-163-143-00	CERAMIC CHIP	0.0012µF	5%	50V
C513	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C514	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C515	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C516	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C518	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C519	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C520	1-124-779-00	ELECT CHIP	10µF	20%	16V
C521	1-124-779-00	ELECT CHIP	10µF	20%	16V

BB

REF. NO.	PART NO.	DESCRIPTION			REMARK
C523	1-164-346-11	CERAMIC CHIP	1µF		16V
C527	1-124-779-00	ELECT CHIP	10µF	20%	16V
C531	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C532	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C533	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C534	1-164-346-11	CERAMIC CHIP	1µF		16V
C535	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C536	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C537	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C538	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C540	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C544	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C545	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C546	1-126-204-11	ELECT CHIP	47µF	20%	16V
C548	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C549	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C550	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C551	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C554	1-164-346-11	CERAMIC CHIP	1µF		16V
C555	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C557	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C558	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C559	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C560	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C561	1-126-204-11	ELECT CHIP	47µF	20%	16V
C563	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C565	1-164-346-11	CERAMIC CHIP	1µF		16V
C566	1-104-601-11	ELECT CHIP	10µF	20%	10V
C567	1-104-601-11	ELECT CHIP	10µF	20%	10V
C568	1-104-601-11	ELECT CHIP	10µF	20%	10V
C570	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C571	1-124-779-00	ELECT CHIP	10µF	20%	16V
C572	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C574	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C575	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C578	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C579	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C580	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C581	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C582	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C583	1-124-779-00	ELECT CHIP	10µF	20%	16V
C584	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C585	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C588	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C589	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C590	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C591	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C592	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C593	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C594	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C595	1-109-982-11	CERAMIC CHIP	1µF	10%	10V
C596	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C597	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C598	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C599	1-124-779-00	ELECT CHIP	10µF	20%	16V
C600	1-124-779-00	ELECT CHIP	10µF	20%	16V
C601	1-163-038-11	CERAMIC CHIP	0.1µF		25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C602	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C603	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C604	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C605	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C606	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C607	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C608	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C609	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C611	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C614	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C615	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C617	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C618	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C619	1-124-779-00	ELECT CHIP	10µF	20%	16V
C620	1-126-204-11	ELECT CHIP	47µF	20%	16V
C621	1-126-204-11	ELECT CHIP	47µF	20%	16V
C622	1-124-779-00	ELECT CHIP	10µF	20%	16V
C623	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C624	1-124-779-00	ELECT CHIP	10µF	20%	16V
C625	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C626	1-124-779-00	ELECT CHIP	10µF	20%	16V
C627	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C628	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C629	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C630	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C631	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C632	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C633	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C638	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C639	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C640	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C641	1-124-779-00	ELECT CHIP	10µF	20%	16V
C642	1-124-779-00	ELECT CHIP	10µF	20%	16V
C643	1-164-346-11	CERAMIC CHIP	1µF		16V
C644	1-164-346-11	CERAMIC CHIP	1µF		16V
C645	1-164-346-11	CERAMIC CHIP	1µF		16V
C655	1-164-346-11	CERAMIC CHIP	1µF		16V
C656	1-164-346-11	CERAMIC CHIP	1µF		16V
C661	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V
C662	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C663	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C664	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C665	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C701	1-126-204-11	ELECT CHIP	47µF	20%	16V
C702	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C703	1-126-204-11	ELECT CHIP	47µF	20%	16V
C704	1-124-779-00	ELECT CHIP	10µF	20%	16V
C705	1-163-113-00	CERAMIC CHIP	68pF	5%	50V
C706	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C707	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C708	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C709	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C710	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C711	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C712	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C713	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C714	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

BB

REF. NO.	PART NO.	DESCRIPTION			REMARK
C716	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C717	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C718	1-163-245-11	CERAMIC CHIP	56pF	5%	50V
C719	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C720	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C721	1-124-779-00	ELECT CHIP	10µF	20%	16V
C722	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C725	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C726	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C728	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C729	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C731	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C732	1-124-779-00	ELECT CHIP	10µF	20%	16V
C734	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C735	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C736	1-124-779-00	ELECT CHIP	10µF	20%	16V
C737	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C738	1-126-204-11	ELECT CHIP	47µF	20%	16V
C739	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C740	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C741	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C742	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C743	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C744	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C745	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C746	1-126-204-11	ELECT CHIP	47µF	20%	16V
C747	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C748	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C749	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C750	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C751	1-124-779-00	ELECT CHIP	10µF	20%	16V
C752	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C753	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C754	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C755	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C756	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C757	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C758	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C759	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C760	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C761	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C762	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C763	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C764	1-163-135-00	CERAMIC CHIP	560pF	5%	50V
C765	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C766	1-163-135-00	CERAMIC CHIP	560pF	5%	50V
C768	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C769	1-164-346-11	CERAMIC CHIP	1µF		16V
C770	1-126-204-11	ELECT CHIP	47µF	20%	16V
C771	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C772	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C773	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C774	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C775	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C778	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C779	1-164-346-11	CERAMIC CHIP	1µF		16V
C781	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C782	1-126-204-11	ELECT CHIP	47µF	20%	16V
C783	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C784	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C785	1-124-779-00	ELECT CHIP	10µF	20%	16V
C786	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C791	1-164-346-11	CERAMIC CHIP	1µF		16V
C793	1-127-515-11	ELECT	47µF	20%	10V
C797	1-164-346-11	CERAMIC CHIP	1µF		16V
C798	1-127-515-11	ELECT	47µF	20%	10V
C799	1-164-346-11	CERAMIC CHIP	1µF		16V
C801	1-127-515-11	ELECT	47µF	20%	10V
C806	1-127-515-11	ELECT	47µF	20%	10V
C807	1-127-515-11	ELECT	47µF	20%	10V
C808	1-164-346-11	CERAMIC CHIP	1µF		16V
C809	1-164-346-11	CERAMIC CHIP	1µF		16V
C810	1-126-935-11	ELECT	470µF	20%	16V
C812	1-126-935-11	ELECT	470µF	20%	16V
C814	1-164-346-11	CERAMIC CHIP	1µF		16V
C815	1-164-346-11	CERAMIC CHIP	1µF		16V
C830	1-164-346-11	CERAMIC CHIP	1µF		16V
C831	1-164-346-11	CERAMIC CHIP	1µF		16V
C832	1-164-346-11	CERAMIC CHIP	1µF		16V
C833	1-164-346-11	CERAMIC CHIP	1µF		16V
C834	1-164-346-11	CERAMIC CHIP	1µF		16V
C835	1-127-515-11	ELECT	47µF	20%	10V
C836	1-164-346-11	CERAMIC CHIP	1µF		16V
C837	1-127-515-11	ELECT	47µF	20%	10V
C838	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C839	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C840	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C844	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C845	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C846	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C847	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C848	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C849	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

<CONNECTOR>

CN701		1-783-966-11	CONNECTOR, BOARD TO BOARD 30P
CN702	*	1-764-643-21	PIN, CONNECTOR (SMD) 11P
CN703		1-783-966-11	CONNECTOR, BOARD TO BOARD 30P

<DIODE>

D301	8-719-422-12	DIODE UDZ-TE-17-3.9B
D302	8-719-976-83	DIODE DTZ-TT11-3.6
D501	8-719-914-43	DIODE DAN202K-T-146
D502	8-719-914-44	DIODE DAP202K-T-146
D701	8-719-073-01	DIODE MA111-TX
D702	8-719-073-01	DIODE MA111-TX
D703	8-719-073-01	DIODE MA111-TX
D704	8-719-073-01	DIODE MA111-TX
D705	8-719-073-01	DIODE MA111-TX
D707	8-719-073-01	DIODE MA111-TX

BB

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>	
FL401	1-234-177-21	FILTER, CHIP EMI	
FL402	1-234-177-21	FILTER, CHIP EMI	
FL403	1-234-177-21	FILTER, CHIP EMI	
FL404	1-234-177-21	FILTER, CHIP EMI	
FL405	1-234-177-21	FILTER, CHIP EMI	
FL501	1-234-335-11	FILTER, LOW PASS	
FL701	1-233-736-21	FILTER, EMI	
FL702	1-233-736-21	FILTER, EMI	
FL703	1-233-736-21	FILTER, EMI	
FL704	1-233-736-21	FILTER, EMI	
FL705	1-233-736-21	FILTER, EMI	
FL706	1-233-736-21	FILTER, EMI	
FL707	1-233-736-21	FILTER, EMI	
FL711	1-234-586-21	FILTER, LOW PASS	
FL712	1-234-586-21	FILTER, LOW PASS	
FL713	1-234-586-21	FILTER, LOW PASS	
		<IC>	
IC301	8-759-669-78	IC TLC2933IPWR-12	
IC302	8-749-015-18	IC PQ07VZ012P	
IC303	8-759-573-19	IC MSM56V16160D-10TS-K	
IC304	8-752-398-47	IC CXD2090Q	
IC305	8-759-447-90	IC TLC5733AIPM	
IC306	8-759-669-75	IC TLC2932IPW-E20	
IC307	8-759-196-93	IC TC7SH00FU-TE85R	
IC401	8-759-640-18	IC TMC57127-MMP-54	
IC403	8-759-666-02	IC MSM534031E-27GS-KR1	
IC503	8-759-485-79	IC TC7SET08FU(TE85R)	
IC505	8-752-088-27	IC CXA3266Q-T6	
IC506	8-759-460-29	IC PST9120NL	
IC508	8-749-015-18	IC PQ07VZ012P	
IC509	8-759-672-57	IC CXD9509AQ	
IC510	8-752-369-84	IC CXD2309Q-T6	
IC511	8-749-015-18	IC PQ07VZ012P	
IC512	8-759-713-79	IC MB81F643242C-10FN	
IC701	8-752-086-13	IC CXA2101AQ	
IC703	8-759-009-51	IC MC14538BFEL	
IC704	8-759-547-54	IC TC7SET00FU(TE85R)	
IC705	8-759-485-79	IC TC7SET08FU(TE85R)	
IC706	8-759-547-54	IC TC7SET00FU(TE85R)	
IC707	8-759-272-74	IC 74VHC123ASJX	
		<COIL>	
L301	1-414-757-11	INDUCTOR 100µH	
L302	1-414-757-11	INDUCTOR 100µH	
L303	1-412-052-21	INDUCTOR 1µH	
L304	1-414-754-11	INDUCTOR 10µH	
L305	1-414-754-11	INDUCTOR 10µH	
L306	1-410-663-31	INDUCTOR 10µH	
L307	1-414-754-11	INDUCTOR 10µH	
L308	1-414-757-11	INDUCTOR 100µH	
L309	1-414-754-11	INDUCTOR 10µH	
L310	1-414-757-11	INDUCTOR 100µH	
L311	1-414-754-11	INDUCTOR 10µH	
L312	1-414-754-11	INDUCTOR 10µH	
L402	1-414-754-11	INDUCTOR 10µH	
L502	1-414-754-11	INDUCTOR 10µH	
L503	1-414-754-11	INDUCTOR 10µH	
L507	1-414-754-11	INDUCTOR 10µH	
L508	1-410-663-31	INDUCTOR 10µH	
L509	1-410-663-31	INDUCTOR 10µH	
L510	1-414-754-11	INDUCTOR 10µH	
L511	1-414-754-11	INDUCTOR 10µH	
L512	1-414-754-11	INDUCTOR 10µH	
L513	1-414-754-11	INDUCTOR 10µH	
L514	1-414-754-11	INDUCTOR 10µH	
L515	1-414-754-11	INDUCTOR 10µH	
L516	1-410-663-31	INDUCTOR 10µH	
L517	1-410-663-31	INDUCTOR 10µH	
L519	1-410-995-42	INDUCTOR 1.5µH	
L701	1-414-755-11	INDUCTOR 22µH	
L702	1-414-755-11	INDUCTOR 22µH	
L703	1-414-755-11	INDUCTOR 22µH	
L705	1-414-754-11	INDUCTOR 10µH	
L706	1-410-192-51	INDUCTOR 1µH	
L708	1-410-192-51	INDUCTOR 1µH	
L709	1-414-755-11	INDUCTOR 22µH	
L710	1-414-755-11	INDUCTOR 22µH	
L714	1-410-663-31	INDUCTOR 10µH	
L715	1-410-671-31	INDUCTOR 47µH	
L716	1-414-755-11	INDUCTOR 22µH	
		<TRANSISTOR>	
Q301	8-729-216-22	TRANSISTOR 2PB709AR-115	
Q302	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q303	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q304	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q305	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q306	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q503	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q504	8-729-216-22	TRANSISTOR 2PB709AR-115	
Q505	8-729-216-22	TRANSISTOR 2PB709AR-115	
Q506	8-729-216-22	TRANSISTOR 2PB709AR-115	
Q507	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q508	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q509	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q510	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q511	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q512	8-729-162-45	TRANSISTOR 2SB624-T1BV5	
Q513	8-729-159-65	TRANSISTOR 2SD596-T1DV5	
Q514	8-729-162-45	TRANSISTOR 2SB624-T1BV5	
Q515	8-729-159-65	TRANSISTOR 2SD596-T1DV5	
Q517	8-729-216-22	TRANSISTOR 2PB709AR-115	
Q518	8-729-216-22	TRANSISTOR 2PB709AR-115	
Q519	8-729-216-22	TRANSISTOR 2PB709AR-115	
Q521	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q522	8-729-422-33	TRANSISTOR 2PD601AR-115	
Q523	8-729-422-33	TRANSISTOR 2PD601AR-115	

REF. NO.	PART NO.	DESCRIPTION		REMARK
Q524	8-729-900-53	TRANSISTOR	DTC114EKA-T146	
Q701	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q703	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q705	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q707	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q708	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q712	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q713	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q714	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q715	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q716	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q717	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q718	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q719	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q721	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q722	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q723	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q724	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q725	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q727	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q728	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q729	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q730	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q731	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q732	8-729-422-33	TRANSISTOR	2PD601AR-115	
Q733	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q734	8-729-216-22	TRANSISTOR	2PB709AR-115	
Q735	8-729-216-22	TRANSISTOR	2PB709AR-115	

<RESISTOR>

R301	1-216-113-00	RES-CHIP	470K	5%	1/10W
R302	1-216-081-00	RES-CHIP	22K	5%	1/10W
R303	1-216-025-11	RES-CHIP	100	5%	1/10W
R304	1-216-025-11	RES-CHIP	100	5%	1/10W
R305	1-216-033-00	RES-CHIP	220	5%	1/10W
R306	1-216-049-11	RES-CHIP	1K	5%	1/10W
R307	1-216-033-00	RES-CHIP	220	5%	1/10W
R308	1-216-037-00	RES-CHIP	330	5%	1/10W
R309	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R310	1-216-062-00	RES-CHIP	3.6K	5%	1/10W
R311	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R312	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R313	1-216-113-00	RES-CHIP	470K	5%	1/10W
R314	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R315	1-216-073-00	RES-CHIP	10K	5%	1/10W
R317	1-216-049-11	RES-CHIP	1K	5%	1/10W
R319	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R320	1-216-295-11	SHORT	0		
R321	1-216-295-11	SHORT	0		
R322	1-216-295-11	SHORT	0		
R323	1-216-295-11	SHORT	0		
R325	1-216-295-11	SHORT	0		
R328	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R329	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R330	1-216-049-11	RES-CHIP	1K	5%	1/10W
R334	1-216-295-11	SHORT	0		

REF. NO.	PART NO.	DESCRIPTION			REMARK
R337	1-216-295-11	SHORT	0		
R339	1-216-295-11	SHORT	0		
R340	1-216-295-11	SHORT	0		
R341	1-216-295-11	SHORT	0		
R342	1-216-295-11	SHORT	0		
R343	1-216-311-00	RES-CHIP	6.8	5%	1/10W
R344	1-216-646-11	METAL CHIP	620	0.5%	1/10W
R345	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R346	1-216-035-00	RES-CHIP	270	5%	1/10W
R347	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R348	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R350	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R352	1-216-295-11	SHORT	0		
R353	1-216-045-00	RES-CHIP	680	5%	1/10W
R354	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R355	1-216-025-11	RES-CHIP	100	5%	1/10W
R356	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R357	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R358	1-216-025-11	RES-CHIP	100	5%	1/10W
R359	1-216-623-11	METAL CHIP	68	0.5%	1/10W
R360	1-216-025-11	RES-CHIP	100	5%	1/10W
R361	1-216-047-91	RES-CHIP	820	5%	1/10W
R362	1-216-623-11	METAL CHIP	68	0.5%	1/10W
R363	1-216-025-11	RES-CHIP	100	5%	1/10W
R364	1-216-045-00	RES-CHIP	680	5%	1/10W
R365	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R366	1-216-049-11	RES-CHIP	1K	5%	1/10W
R367	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R368	1-216-117-00	RES-CHIP	680K	5%	1/10W
R369	1-216-295-11	SHORT	0		
R370	1-216-668-11	METAL CHIP	5.1K	0.5%	1/10W
R371	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R372	1-216-117-00	RES-CHIP	680K	5%	1/10W
R374	1-216-295-11	SHORT	0		
R375	1-216-077-91	RES-CHIP	15K	5%	1/10W
R376	1-216-089-11	RES-CHIP	47K	5%	1/10W
R377	1-216-077-91	RES-CHIP	15K	5%	1/10W
R378	1-216-077-91	RES-CHIP	15K	5%	1/10W
R379	1-216-037-00	RES-CHIP	330	5%	1/10W
R380	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R381	1-216-037-00	RES-CHIP	330	5%	1/10W
R382	1-216-295-11	SHORT	0		
R383	1-216-295-11	SHORT	0		
R384	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R385	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R386	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R387	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R388	1-216-621-11	METAL CHIP	56	0.5%	1/10W
R389	1-216-009-91	RES-CHIP	22	5%	1/10W
R390	1-216-295-11	SHORT	0		
R391	1-216-295-11	SHORT	0		
R392	1-216-037-00	RES-CHIP	330	5%	1/10W
R393	1-216-295-11	SHORT	0		
R395	1-216-295-11	SHORT	0		
R396	1-216-295-11	SHORT	0		
R397	1-216-017-91	RES-CHIP	47	5%	1/10W
R398	1-216-017-91	RES-CHIP	47	5%	1/10W

BB

REF. NO.	PART NO.	DESCRIPTION			REMARK
R402	1-216-295-11	SHORT	0		
R404	1-216-295-11	SHORT	0		
R405	1-216-295-11	SHORT	0		
R407	1-216-295-11	SHORT	0		
R408	1-216-295-11	SHORT	0		
R409	1-216-295-11	SHORT	0		
R410	1-216-295-11	SHORT	0		
R411	1-216-295-11	SHORT	0		
R412	1-216-295-11	SHORT	0		
R413	1-216-295-11	SHORT	0		
R414	1-216-295-11	SHORT	0		
R415	1-216-609-11	RES-CHIP	18	5%	1/10W
R416	1-216-295-11	SHORT	0		
R419	1-216-295-11	SHORT	0		
R421	1-216-001-00	RES-CHIP	10	5%	1/10W
R422	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R423	1-216-295-11	SHORT	0		
R425	1-216-005-00	RES-CHIP	15	5%	1/10W
R426	1-216-001-00	RES-CHIP	10	5%	1/10W
R427	1-216-295-11	SHORT	0		
R429	1-216-295-11	SHORT	0		
R430	1-216-295-11	SHORT	0		
R431	1-216-295-11	SHORT	0		
R432	1-216-295-11	SHORT	0		
R433	1-216-295-11	SHORT	0		
R505	1-216-013-00	RES-CHIP	33	5%	1/10W
R510	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R514	1-216-295-11	SHORT	0		
R516	1-216-656-11	METAL CHIP	1.6K	0.5%	1/10W
R518	1-216-295-11	SHORT	0		
R524	1-216-049-11	RES-CHIP	1K	5%	1/10W
R525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R537	1-216-073-00	RES-CHIP	10K	5%	1/10W
R538	1-216-025-11	RES-CHIP	100	5%	1/10W
R539	1-216-025-11	RES-CHIP	100	5%	1/10W
R540	1-216-025-11	RES-CHIP	100	5%	1/10W
R541	1-216-025-11	RES-CHIP	100	5%	1/10W
R542	1-216-025-11	RES-CHIP	100	5%	1/10W
R543	1-216-674-11	METAL CHIP	9.1K	0.5%	1/10W
R544	1-216-674-11	METAL CHIP	9.1K	0.5%	1/10W
R546	1-216-295-11	SHORT	0		
R548	1-216-295-11	SHORT	0		
R549	1-216-097-11	RES-CHIP	100K	5%	1/10W
R553	1-216-295-11	SHORT	0		
R557	1-216-029-00	RES-CHIP	150	5%	1/10W
R558	1-216-041-00	RES-CHIP	470	5%	1/10W
R559	1-216-001-00	RES-CHIP	10	5%	1/10W
R560	1-216-668-11	METAL CHIP	5.1K	0.5%	1/10W
R561	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R563	1-216-049-11	RES-CHIP	1K	5%	1/10W
R564	1-216-049-11	RES-CHIP	1K	5%	1/10W
R565	1-216-295-11	SHORT	0		
R566	1-216-295-11	SHORT	0		
R567	1-216-295-11	SHORT	0		
R568	1-216-295-11	SHORT	0		
R570	1-216-009-91	RES-CHIP	22	5%	1/10W
R572	1-216-009-91	RES-CHIP	22	5%	1/10W
R573	1-216-295-11	SHORT	0		
R576	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R578	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R579	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R580	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R581	1-216-073-00	RES-CHIP	10K	5%	1/10W
R582	1-216-073-00	RES-CHIP	10K	5%	1/10W
R584	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R585	1-216-295-11	SHORT	0		
R586	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R590	1-216-295-11	SHORT	0		
R591	1-216-073-00	RES-CHIP	10K	5%	1/10W
R592	1-216-073-00	RES-CHIP	10K	5%	1/10W
R594	1-216-009-91	RES-CHIP	22	5%	1/10W
R595	1-216-009-91	RES-CHIP	22	5%	1/10W
R596	1-216-049-11	RES-CHIP	1K	5%	1/10W
R597	1-216-049-11	RES-CHIP	1K	5%	1/10W
R598	1-216-049-11	RES-CHIP	1K	5%	1/10W
R599	1-216-009-91	RES-CHIP	22	5%	1/10W
R600	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R601	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R602	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R603	1-216-626-11	METAL CHIP	91	0.5%	1/10W
R604	1-216-626-11	METAL CHIP	91	0.5%	1/10W
R605	1-216-626-11	METAL CHIP	91	0.5%	1/10W
R606	1-216-073-00	RES-CHIP	10K	5%	1/10W
R607	1-216-073-00	RES-CHIP	10K	5%	1/10W
R608	1-216-073-00	RES-CHIP	10K	5%	1/10W
R609	1-216-073-00	RES-CHIP	10K	5%	1/10W
R610	1-216-073-00	RES-CHIP	10K	5%	1/10W
R611	1-216-295-11	SHORT	0		
R612	1-216-295-11	SHORT	0		
R614	1-216-295-11	SHORT	0		
R615	1-216-035-00	RES-CHIP	270	5%	1/10W
R616	1-216-025-11	RES-CHIP	100	5%	1/10W
R617	1-216-025-11	RES-CHIP	100	5%	1/10W
R618	1-216-025-11	RES-CHIP	100	5%	1/10W
R619	1-216-025-11	RES-CHIP	100	5%	1/10W
R620	1-216-025-11	RES-CHIP	100	5%	1/10W
R621	1-216-025-11	RES-CHIP	100	5%	1/10W
R623	1-216-045-00	RES-CHIP	680	5%	1/10W
R624	1-216-049-11	RES-CHIP	1K	5%	1/10W
R625	1-216-049-11	RES-CHIP	1K	5%	1/10W
R626	1-216-295-11	SHORT	0		
R627	1-216-025-11	RES-CHIP	100	5%	1/10W
R628	1-216-025-11	RES-CHIP	100	5%	1/10W
R629	1-216-295-11	SHORT	0		
R630	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R631	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R632	1-216-025-11	RES-CHIP	100	5%	1/10W
R633	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R634	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R635	1-216-295-11	SHORT	0		
R636	1-216-295-11	SHORT	0		
R637	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R638	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R639	1-216-025-11	RES-CHIP	100	5%	1/10W

BB

REF. NO.	PART NO.	DESCRIPTION			REMARK
R640	1-216-049-11	RES-CHIP	1K	5%	1/10W
R641	1-216-025-11	RES-CHIP	100	5%	1/10W
R642	1-216-049-11	RES-CHIP	1K	5%	1/10W
R643	1-216-009-91	RES-CHIP	22	5%	1/10W
R644	1-216-009-91	RES-CHIP	22	5%	1/10W
R645	1-216-009-91	RES-CHIP	22	5%	1/10W
R646	1-216-009-91	RES-CHIP	22	5%	1/10W
R647	1-216-009-91	RES-CHIP	22	5%	1/10W
R648	1-216-009-91	RES-CHIP	22	5%	1/10W
R649	1-216-009-91	RES-CHIP	22	5%	1/10W
R650	1-216-009-91	RES-CHIP	22	5%	1/10W
R651	1-216-295-11	SHORT	0		
R652	1-216-009-91	RES-CHIP	22	5%	1/10W
R653	1-216-009-91	RES-CHIP	22	5%	1/10W
R654	1-216-009-91	RES-CHIP	22	5%	1/10W
R655	1-216-009-91	RES-CHIP	22	5%	1/10W
R656	1-216-009-91	RES-CHIP	22	5%	1/10W
R657	1-216-009-91	RES-CHIP	22	5%	1/10W
R658	1-216-009-91	RES-CHIP	22	5%	1/10W
R659	1-216-009-91	RES-CHIP	22	5%	1/10W
R660	1-216-009-91	RES-CHIP	22	5%	1/10W
R661	1-216-009-91	RES-CHIP	22	5%	1/10W
R662	1-216-295-11	SHORT	0		
R663	1-216-009-91	RES-CHIP	22	5%	1/10W
R664	1-216-009-91	RES-CHIP	22	5%	1/10W
R665	1-216-009-91	RES-CHIP	22	5%	1/10W
R666	1-216-009-91	RES-CHIP	22	5%	1/10W
R667	1-216-009-91	RES-CHIP	22	5%	1/10W
R668	1-216-009-91	RES-CHIP	22	5%	1/10W
R669	1-216-009-91	RES-CHIP	22	5%	1/10W
R670	1-216-009-91	RES-CHIP	22	5%	1/10W
R671	1-216-009-91	RES-CHIP	22	5%	1/10W
R672	1-216-009-91	RES-CHIP	22	5%	1/10W
R673	1-216-009-91	RES-CHIP	22	5%	1/10W
R674	1-216-009-91	RES-CHIP	22	5%	1/10W
R675	1-216-009-91	RES-CHIP	22	5%	1/10W
R676	1-216-009-91	RES-CHIP	22	5%	1/10W
R677	1-216-009-91	RES-CHIP	22	5%	1/10W
R678	1-216-009-91	RES-CHIP	22	5%	1/10W
R679	1-216-295-11	SHORT	0		
R680	1-216-009-91	RES-CHIP	22	5%	1/10W
R681	1-216-009-91	RES-CHIP	22	5%	1/10W
R682	1-216-009-91	RES-CHIP	22	5%	1/10W
R683	1-216-009-91	RES-CHIP	22	5%	1/10W
R684	1-216-009-91	RES-CHIP	22	5%	1/10W
R685	1-216-009-91	RES-CHIP	22	5%	1/10W
R686	1-216-009-91	RES-CHIP	22	5%	1/10W
R687	1-216-009-91	RES-CHIP	22	5%	1/10W
R688	1-216-295-11	SHORT	0		
R689	1-216-009-91	RES-CHIP	22	5%	1/10W
R690	1-216-009-91	RES-CHIP	22	5%	1/10W
R691	1-216-009-91	RES-CHIP	22	5%	1/10W
R692	1-216-009-91	RES-CHIP	22	5%	1/10W
R693	1-216-009-91	RES-CHIP	22	5%	1/10W
R694	1-216-009-91	RES-CHIP	22	5%	1/10W
R695	1-216-009-91	RES-CHIP	22	5%	1/10W
R696	1-216-009-91	RES-CHIP	22	5%	1/10W
R697	1-216-009-91	RES-CHIP	22	5%	1/10W
R698	1-216-295-11	SHORT	0		
R702	1-216-295-11	SHORT	0		
R705	1-216-639-11	METAL CHIP	330	0.5%	1/10W
R706	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R707	1-216-025-11	RES-CHIP	100	5%	1/10W
R708	1-216-295-11	SHORT	0		
R709	1-216-683-11	METAL CHIP	22	0.5%	1/10W
R710	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R712	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R713	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R714	1-216-639-11	METAL CHIP	330	0.5%	1/10W
R716	1-216-025-11	RES-CHIP	100	5%	1/10W
R717	1-216-017-91	RES-CHIP	47	5%	1/10W
R719	1-216-684-91	METAL CHIP	24K	0.5%	1/10W
R720	1-216-672-11	METAL CHIP	7.5K	0.5%	1/10W
R721	1-216-025-11	RES-CHIP	100	5%	1/10W
R722	1-216-017-91	RES-CHIP	47	5%	1/10W
R723	1-216-025-11	RES-CHIP	100	5%	1/10W
R725	1-216-025-11	RES-CHIP	100	5%	1/10W
R726	1-216-295-11	SHORT	0		
R728	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R731	1-216-017-91	RES-CHIP	47	5%	1/10W
R733	1-216-017-91	RES-CHIP	47	5%	1/10W
R735	1-216-017-91	RES-CHIP	47	5%	1/10W
R737	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R738	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R739	1-216-295-11	SHORT	0		
R740	1-216-017-91	RES-CHIP	47	5%	1/10W
R741	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R742	1-216-045-00	RES-CHIP	680	5%	1/10W
R743	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R747	1-216-017-91	RES-CHIP	47	5%	1/10W
R748	1-216-041-00	RES-CHIP	470	5%	1/10W
R749	1-216-017-91	RES-CHIP	47	5%	1/10W
R750	1-216-025-11	RES-CHIP	100	5%	1/10W
R751	1-216-025-11	RES-CHIP	100	5%	1/10W
R752	1-216-017-91	RES-CHIP	47	5%	1/10W
R753	1-216-017-91	RES-CHIP	47	5%	1/10W
R754	1-216-025-11	RES-CHIP	100	5%	1/10W
R755	1-216-017-91	RES-CHIP	47	5%	1/10W
R756	1-216-025-11	RES-CHIP	100	5%	1/10W
R757	1-216-041-00	RES-CHIP	470	5%	1/10W
R758	1-216-049-11	RES-CHIP	1K	5%	1/10W
R759	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R760	1-216-133-00	RES-CHIP	3.3M	5%	1/10W
R761	1-216-017-91	RES-CHIP	47	5%	1/10W
R762	1-216-037-00	RES-CHIP	330	5%	1/10W
R763	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R764	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R765	1-216-009-91	RES-CHIP	22	5%	1/10W
R766	1-218-768-11	METAL CHIP	470K	0.5%	1/10W
R767	1-216-073-00	RES-CHIP	10K	5%	1/10W
R768	1-216-009-91	RES-CHIP	22	5%	1/10W
R770	1-216-025-11	RES-CHIP	100	5%	1/10W
R771	1-216-025-11	RES-CHIP	100	5%	1/10W

BB

REF. NO.	PART NO.	DESCRIPTION			REMARK
R772	1-216-025-11	RES-CHIP	100	5%	1/10W
R773	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R774	1-218-768-11	METAL CHIP	470K	0.5%	1/10W
R775	1-216-025-11	RES-CHIP	100	5%	1/10W
R776	1-216-295-11	SHORT	0		
R777	1-216-073-00	RES-CHIP	10K	5%	1/10W
R778	1-216-025-11	RES-CHIP	100	5%	1/10W
R779	1-216-045-00	RES-CHIP	680	5%	1/10W
R781	1-216-025-11	RES-CHIP	100	5%	1/10W
R783	1-216-025-11	RES-CHIP	100	5%	1/10W
R785	1-216-009-91	RES-CHIP	22	5%	1/10W
R786	1-216-073-00	RES-CHIP	10K	5%	1/10W
R787	1-216-009-91	RES-CHIP	22	5%	1/10W
R788	1-216-025-11	RES-CHIP	100	5%	1/10W
R789	1-216-025-11	RES-CHIP	100	5%	1/10W
R790	1-216-025-11	RES-CHIP	100	5%	1/10W
R791	1-216-045-00	RES-CHIP	680	5%	1/10W
R792	1-216-025-11	RES-CHIP	100	5%	1/10W
R795	1-216-009-91	RES-CHIP	22	5%	1/10W
R796	1-216-009-91	RES-CHIP	22	5%	1/10W
R799	1-216-295-11	SHORT	0		
R800	1-216-295-11	SHORT	0		
R803	1-216-025-11	RES-CHIP	100	5%	1/10W
R804	1-216-025-11	RES-CHIP	100	5%	1/10W
R805	1-216-025-11	RES-CHIP	100	5%	1/10W
R806	1-216-025-11	RES-CHIP	100	5%	1/10W
R807	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R808	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R809	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R810	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R811	1-216-025-11	RES-CHIP	100	5%	1/10W
R812	1-216-025-11	RES-CHIP	100	5%	1/10W
R813	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R814	1-216-009-91	RES-CHIP	22	5%	1/10W
R815	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R816	1-216-025-11	RES-CHIP	100	5%	1/10W
R817	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R818	1-216-025-11	RES-CHIP	100	5%	1/10W
R819	1-216-025-11	RES-CHIP	100	5%	1/10W
R820	1-216-009-91	RES-CHIP	22	5%	1/10W
R821	1-216-049-11	RES-CHIP	1K	5%	1/10W
R822	1-216-025-11	RES-CHIP	100	5%	1/10W
R823	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R824	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R825	1-216-049-11	RES-CHIP	1K	5%	1/10W
R826	1-216-025-11	RES-CHIP	100	5%	1/10W
R827	1-216-693-11	METAL CHIP	56K	0.5%	1/10W
R828	1-216-045-00	RES-CHIP	680	5%	1/10W
R829	1-216-049-11	RES-CHIP	1K	5%	1/10W
R830	1-216-295-11	SHORT	0		
R831	1-216-025-11	RES-CHIP	100	5%	1/10W
R832	1-216-045-00	RES-CHIP	680	5%	1/10W
R833	1-216-295-11	SHORT	0		
R834	1-216-295-11	SHORT	0		
R835	1-216-295-11	SHORT	0		
R836	1-216-009-91	RES-CHIP	22	5%	1/10W
R837	1-216-295-11	SHORT	0		
R838	1-216-043-91	RES-CHIP	560	5%	1/10W
R839	1-216-295-11	SHORT	0		
R840	1-216-025-11	RES-CHIP	100	5%	1/10W
R841	1-216-295-11	SHORT	0		
R842	1-216-025-11	RES-CHIP	100	5%	1/10W
R843	1-216-025-11	RES-CHIP	100	5%	1/10W
R857	1-216-025-11	RES-CHIP	100	5%	1/10W
R860	1-216-025-11	RES-CHIP	100	5%	1/10W
R874	1-216-025-11	RES-CHIP	100	5%	1/10W
R879	1-216-295-11	SHORT	0		
R880	1-216-033-00	RES-CHIP	220	5%	1/10W
R881	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R883	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R884	1-216-041-00	RES-CHIP	470	5%	1/10W
R885	1-216-295-11	SHORT	0		
R886	1-216-033-00	RES-CHIP	220	5%	1/10W
R887	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R889	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R890	1-216-041-00	RES-CHIP	470	5%	1/10W
R891	1-216-295-11	SHORT	0		
R892	1-216-033-00	RES-CHIP	220	5%	1/10W
R893	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R895	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R896	1-216-041-00	RES-CHIP	470	5%	1/10W
R897	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R898	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R899	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R6001	1-216-295-11	SHORT	0		
R6301	1-216-009-91	RES-CHIP	22	5%	1/10W
R6502	1-216-295-11	SHORT	0		
R6504	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6505	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R6506	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6507	1-216-607-11	METAL CHIP	15	0.5%	1/10W
R6508	1-216-001-00	RES-CHIP	10	5%	1/10W
R6509	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6511	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6512	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6513	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6514	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6521	1-216-001-00	RES-CHIP	10	5%	1/10W
R6524	1-216-295-11	SHORT	0		
R6525	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R6526	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6527	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6528	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6531	1-216-295-11	SHORT	0		
R6539	1-216-642-11	METAL CHIP	430	0.5%	1/10W
R6542	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6703	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R6704	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6705	1-216-295-11	SHORT	0		
R6714	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6715	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6716	1-216-295-11	SHORT	0		
R6717	1-216-295-11	SHORT	0		
R6718	1-216-295-11	SHORT	0		

BB G

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
R6719	1-216-295-11	SHORT	0			
R6720	1-216-295-11	SHORT	0			
R6721	1-216-295-11	SHORT	0			
		<RESISTER BLOCK>				
RB401	1-233-576-11	RES, CHIP NETWORK 100				
RB402	1-233-576-11	RES, CHIP NETWORK 100				
RB403	1-233-576-11	RES, CHIP NETWORK 100				
RB404	1-233-576-11	RES, CHIP NETWORK 100				
RB405	1-233-576-11	RES, CHIP NETWORK 100				
RB406	1-233-576-11	RES, CHIP NETWORK 100				
RB407	1-239-711-91	NETWORK RESISTOR (CHIP)0				
RB408	1-239-711-91	NETWORK RESISTOR (CHIP)0				
RB415	1-233-575-11	RES, CHIP NETWORK 22				
RB416	1-233-575-11	RES, CHIP NETWORK 22				
RB417	1-233-575-11	RES, CHIP NETWORK 22				
RB418	1-233-575-11	RES, CHIP NETWORK 22				
RB419	1-233-575-11	RES, CHIP NETWORK 22				
RB420	1-233-575-11	RES, CHIP NETWORK 22				
RB507	1-233-576-11	RES, CHIP NETWORK 100				
RB508	1-233-576-11	RES, CHIP NETWORK 100				
RB509	1-233-576-11	RES, CHIP NETWORK 100				
RB510	1-233-576-11	RES, CHIP NETWORK 100				
RB511	1-233-576-11	RES, CHIP NETWORK 100				
RB512	1-233-576-11	RES, CHIP NETWORK 100				
		<CRYSTAL>				
X402	1-781-855-21	OSCILLATOR, CRYSTAL				
X501	1-781-535-21	VIBRATOR, CRYSTAL (17.26272MHz)				
X502	1-781-649-21	OSCILLATOR, CRYSTAL (54.00MHz)				
		**********				
	* A-1316-525-A	G BOARD, COMPLETE				
		**********				
	1-533-223-11	HOLDER, FUSE (F1601)				
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE				
	4-382-854-01	SCREW (M3X8), P, SW (+)				
		<CAPACITOR>				
C1602	1-163-005-11	CERAMIC CHIP	470pF	10%	50V	
C1603	1-107-678-11	ELECT	4.7µF	20%	450V	
C1604 ⚠	1-161-830-00	CERAMIC	0.0047µF	99%	500V	
C1605 ⚠	1-161-830-00	CERAMIC	0.0047µF	99%	500V	
C1606	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V	
C1607 ⚠	1-161-830-00	CERAMIC	0.0047µF	99%	500V	
C1608 ⚠	1-161-830-00	CERAMIC	0.0047µF	99%	500V	
C1609	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1610	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C1611	1-117-752-11	ELECT(BLOCK)	330µF	20%	450V	
C1612	1-117-752-11	ELECT(BLOCK)	330µF	20%	450V	
C1613	1-126-964-11	ELECT	10µF	20%	50V	
C1614	1-126-967-11	ELECT	47µF	20%	50V	
C1615	1-126-948-11	ELECT	100µF	20%	35V	
C1616	1-137-605-11	MYLAR	0.01µF	10%	250V	
C1617	1-126-965-11	ELECT	22µF	20%	50V	
C1618	1-136-165-00	FILM	0.1µF	5%	50V	
C1620	1-126-960-11	ELECT	1µF	20%	50V	
C1621	1-126-940-11	ELECT	330µF	20%	25V	
C1622	1-126-961-11	ELECT	2.2µF	20%	50V	
C1623	1-136-479-11	FILM	0.001µF	2%	50V	
C1624	1-126-962-11	ELECT	3.3µF	20%	50V	
C1625	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1626	1-117-703-41	CERAMIC	0.0047µF	99%	250V	
C1627	1-125-969-91	CERAMIC	680pF	10%	1KV	
C1628	1-125-969-91	CERAMIC	680pF	10%	1KV	
C1629	1-135-946-81	FILM	47000pF	3%	800V	
C1630	1-126-939-11	ELECT	10000µF	20%	16V	
C1631	1-126-942-61	ELECT	1000µF	20%	25V	
C1632	1-126-964-11	ELECT	10µF	20%	50V	
C1633	1-104-664-11	ELECT	47µF	20%	25V	
C1634	1-128-548-11	ELECT	4700µF	20%	25V	
C1635	1-128-548-11	ELECT	4700µF	20%	25V	
C1636	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1637	1-126-929-11	ELECT	4700µF	20%	10V	
C1638	1-126-932-51	ELECT	15000µF	20%	10V	
C1639	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1640	1-104-664-11	ELECT	47µF	20%	25V	
C1641	1-104-664-11	ELECT	47µF	20%	25V	
C1642	1-126-964-11	ELECT	10µF	20%	50V	
C1643	1-104-664-11	ELECT	47µF	20%	25V	
C1644	1-104-664-11	ELECT	47µF	20%	25V	
C1645	1-104-664-11	ELECT	47µF	20%	25V	
C1646	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1647	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1648	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1649	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1650	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1651	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1652	1-126-964-11	ELECT	10µF	20%	50V	
C1653	1-126-967-11	ELECT	47µF	20%	50V	
C1654	1-104-664-11	ELECT	47µF	20%	25V	
C1655	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C1656	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C1657	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C1658	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V	
C1659	1-137-194-81	FILM	0.47µF	5%	50V	
C1660 ⚠	1-104-708-11	MYLAR	0.47µF	20%	250V	
C1661 ⚠	1-113-889-11	CERAMIC	1000pF	20%	250V	
C1662 ⚠	1-113-889-11	CERAMIC	1000pF	20%	250V	
C1664 ⚠	1-104-708-11	MYLAR	0.47µF	20%	250V	
C1666	1-109-843-11	CERAMIC	33pF	5%	2KV	
C1667	1-109-843-11	CERAMIC	33pF	5%	2KV	
C1668	1-109-843-11	CERAMIC	33pF	5%	2KV	
C1669	1-109-843-11	CERAMIC	33pF	5%	2KV	
C1670	1-125-497-11	ELECT(BLOCK)	100µF	20%	400V	
C1671	1-125-497-11	ELECT(BLOCK)	100µF	20%	400V	
C1672	1-161-830-00	CERAMIC	0.0047µF		500V	
C1674	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1675	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN1601*	1-580-843-11	PIN, CONNECTOR (POWER)	
CN1602*	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN1603*	1-564-511-61	PLUG, CONNECTOR 8P	
CN1604*	1-580-838-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1605*	1-564-509-11	PLUG, CONNECTOR 6P	
CN1606*	1-564-510-11	PLUG, CONNECTOR 7P	
CN1607*	1-564-516-11	PLUG, CONNECTOR 13P	
CN1609	1-695-915-11	TAB (CONTACT)	
CN1610	1-695-915-11	TAB (CONTACT)	
CN1611	1-695-915-11	TAB (CONTACT)	
CN1612	1-695-915-11	TAB (CONTACT)	
CN1613*	1-564-512-11	PLUG, CONNECTOR 9P	
CN1614*	1-564-506-11	PLUG, CONNECTOR 3P	
CN1615*	1-564-507-11	PLUG, CONNECTOR 4P	
CN1616*	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
		<DIODE>	
D1601	8-719-077-76	DIODE D2SB60A-F04	
D1602 ⚠	8-719-022-99	DIODE D6SB60L	
D1603	8-719-106-89	DIODE RD15M-T1B2	
D1604	8-719-988-61	DIODE 1SS355TE-17	
D1605	8-719-948-45	DIODE ERA22-08TP3	
D1606	8-719-105-92	DIODE RD5.6M-T1B3	
D1607	8-719-979-64	DIODE µF4005PKG23	
D1608	8-719-060-90	DIODE S2L60F	
D1609	8-719-063-73	DIODE D1NL20U-TR	
D1610	8-719-510-48	DIODE D1N20R-TR	
D1612	8-719-060-90	DIODE S2L60F	
D1613	8-719-510-02	DIODE D1NS4-TA2	
D1614	8-719-510-02	DIODE D1NS4-TA2	
D1616	8-719-510-02	DIODE D1NS4-TA2	
D1617	8-719-510-02	DIODE D1NS4-TA2	
D1618	8-719-988-61	DIODE 1SS355TE-17	
D1619	8-719-105-91	DIODE RD5.6M-T1B2	
D1620	8-719-055-40	DIODE FCQ30A04	
D1621	8-719-018-84	DIODE D2S6MTA1	
D1623	8-719-055-40	DIODE FCQ30A04	
D1624	8-719-510-09	DIODE D10SC6M	
D1625	8-719-988-31	DIODE D10SC6MR	
D1626	8-719-510-12	DIODE D10SC4M-F	
D1629	8-719-988-61	DIODE 1SS355TE-17	
D1630	8-719-988-61	DIODE 1SS355TE-17	
D1631 ⚠	8-719-988-61	DIODE 1SS355TE-17	
D1632	1-216-295-11	SHORT 0	
D1635	8-719-060-90	DIODE S2L60F	
D1636	8-719-060-90	DIODE S2L60F	
D1638	8-719-988-61	DIODE 1SS355TE-17	
D1639	8-719-510-02	DIODE D1NS4-TA2	
D1640	8-719-105-91	DIODE RD5.6M-T1B2	
D1641	8-719-988-61	DIODE 1SS355TE-17	
D1642	8-719-988-61	DIODE 1SS355TE-17	
		<FUSE>	
F1601 ⚠	1-576-232-11	FUSE (H.B.C.) 5A/250V	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FERRITE BEAD>	
FB1601	1-410-397-21	FERRITE 1.1µH	
FB1602	1-410-397-21	FERRITE 1.1µH	
FB1603	1-410-397-21	FERRITE 1.1µH	
FB1604	1-410-397-21	FERRITE 1.1µH	
FB1605	1-410-397-21	FERRITE 1.1µH	
FB1606	1-410-397-21	FERRITE 1.1µH	
		<IC>	
IC1601	8-759-670-30	IC MCZ3001D	
IC1602	8-759-198-31	IC µPC1093J-1-T	
IC1603	8-759-198-31	IC µPC1093J-1-T	
		<COIL>	
L1601	1-412-525-31	INDUCTOR 10µH	
L1604	1-412-525-31	INDUCTOR 10µH	
L1606	1-412-525-31	INDUCTOR 10µH	
L1607	1-412-525-31	INDUCTOR 10µH	
L1608	1-412-525-31	INDUCTOR 10µH	
L1609	1-406-659-11	INDUCTOR 10µH	
L1610	1-406-971-21	INDUCTOR 10µH	
L1612	1-406-659-11	INDUCTOR 10µH	
L1616	1-406-984-21	INDUCTOR 1.5mH	
		<PHOTO COUPLER>	
PH1601	8-749-010-64	PHOTO COUPLER PC123FY2	
		<IC LINK>	
PS1601 ⚠	1-576-390-91	LINK, IC 2.5A	
PS1602 ⚠	1-576-390-91	LINK, IC 2.5A	
		<TRANSISTOR>	
Q1601	8-729-046-40	TRANSISTOR 2SK2663	
Q1602	8-729-023-22	TRANSISTOR 2SD2114KT146	
Q1603	8-729-023-22	TRANSISTOR 2SD2114KT146	
Q1604	8-729-216-22	TRANSISTOR 2PB709AR-115	
Q1605	8-729-023-22	TRANSISTOR 2SD2114KT146	
Q1606	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q1607	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q1608	8-729-216-22	TRANSISTOR 2PB709AR-115	
		<RESISTOR>	
R1601	1-260-302-51	CARBON 6.8 5% 1/2W	
R1603	1-216-045-00	RES-CHIP 680 5% 1/10W	
R1604	1-240-205-91	CARBON 22M 5% 1/2W	
R1605	1-216-009-91	RES-CHIP 22 5% 1/10W	
R1606	1-249-389-11	CARBON 4.7 5% 1/4W	
R1607	1-249-417-11	CARBON 1K 5% 1/4W	
R1608	1-216-073-00	RES-CHIP 10K 5% 1/10W	
R1609	1-216-041-00	RES-CHIP 470 5% 1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1611	1-260-131-11	CARBON	470K	5%	1/2W
R1612	1-215-485-00	METAL	470K	1%	1/4W
R1613 ⚠	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R1616	1-249-393-11	CARBON	10	5%	1/4W
R1617	1-249-377-11	CARBON	0.47	5%	1/4W
R1618	1-260-288-11	CARBON	0.47	5%	1/2W
R1619 ⚠	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R1620	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1621	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1622	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1623	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1624	1-215-481-00	METAL	330K	1%	1/4W
R1625	1-215-481-00	METAL	330K	1%	1/4W
R1626	1-215-481-00	METAL	330K	1%	1/4W
R1627	1-215-859-00	METAL OXIDE	22	5%	1W
R1628	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R1629	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R1630	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1631	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1632	1-249-393-11	CARBON	10	5%	1/4W
R1633	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1634	1-249-393-11	CARBON	10	5%	1/4W
R1635	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1638	1-202-965-11	METAL	0.02	10%	2W
R1640	1-216-350-11	METAL OXIDE	1.2	5%	1W
R1641	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1642	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1643	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R1644	1-216-025-11	RES-CHIP	100	5%	1/10W
R1645	1-216-017-91	RES-CHIP	47	5%	1/10W
R1646	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1647	1-216-041-00	RES-CHIP	470	5%	1/10W
R1648	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1649	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1650	1-216-658-11	METAL CHIP	2K	0.5%	1/10W
R1651 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R1652 ⚠	1-205-998-11	CEMENTED	1	5%	10W
R1653 ⚠	1-202-719-00	SOLID	1M	20%	1/2W
R1654	1-249-377-11	CARBON	0.47	5%	1/4W
R1655	1-249-377-11	CARBON	0.47	5%	1/4W
R1656	1-215-904-11	METAL OXIDE	100K	5%	2W
R1657	1-215-904-11	METAL OXIDE	100K	5%	2W
R1658	1-216-295-11	SHORT	0		
R1660	1-216-295-11	SHORT	0		
R1662 ⚠	1-218-265-11	METAL	8.2M	5%	1W
R1664	1-216-295-11	SHORT	0		
R1665	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R1666	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R1667	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R1668	1-216-676-11	METAL CHIP	11K	0.5%	1/10W
R1669	1-216-041-00	RES-CHIP	470	5%	1/10W
R1670	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R1671	1-216-041-00	RES-CHIP	470	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<RELAY>	
RY1601 ⚠	1-755-388-11	RELAY (AC POWER)	
		<TRANSFORMER>	
T1601 ⚠	1-431-852-11	TRANSFORMER, CONVERTER (SRT)	
T1603 ⚠	1-435-512-11	TRANSFORMER, CONVERTER (PIT)	
T1606 ⚠	1-433-488-11	TRANSFORMER, LINE FILTER	
		<THERMISTOR>	
TH1601	1-803-586-11	THERMISTOR, NTC	
		<VARISTOR>	
VD1601 ⚠	1-803-830-11	VARISTOR (ERZV14D621)	
VD1602 ⚠	1-803-830-11	VARISTOR (ERZV14D621)	

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* A-1372-879-A H1 MOUNT
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<CAPACITOR>

C4305	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C4307	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C4309	1-163-251-11	CERAMIC CHIP	100pF	5%	50V

<CONNECTOR>

CN4301*	1-564-521-11	PLUG, CONNECTOR 6P
CN4302*	1-564-520-11	PLUG, CONNECTOR 5P
CN4303*	1-564-524-11	PLUG, CONNECTOR 9P

<DIODE>

D4301	8-719-016-73	DIODE STZ6.8TT146
D4302	8-719-016-73	DIODE STZ6.8TT146
D4303	8-719-016-73	DIODE STZ6.8TT146
D4304	8-719-016-73	DIODE STZ6.8TT146
D4305	8-719-016-73	DIODE STZ6.8TT146
D4306	8-719-016-73	DIODE STZ6.8TT146

<JACK>

J4301	1-573-970-11	BLOCK, (S) TERMINAL (AV4 INPUT)
J4302	1-774-753-11	JACK (HEAD PHONE)

<COIL>

L4301	1-414-189-31	INDUCTOR	100µH
L4302	1-414-189-31	INDUCTOR	100µH
L4303	1-410-985-42	INDUCTOR	0.22µH

H1 H2 H4 J

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R4301	1-216-033-00	RES-CHIP	220	5%	1/10W
R4303	1-216-033-00	RES-CHIP	220	5%	1/10W
R4305	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4307	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4308	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4309	1-216-033-00	RES-CHIP	220	5%	1/10W
R4311	1-216-033-00	RES-CHIP	220	5%	1/10W
R4312	1-216-295-11	SHORT	0		
R4313	1-216-295-11	SHORT	0		

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* A-1372-846-A H2 MOUNT
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		<CONNECTOR>			
CN4404*	1-564-522-11	PLUG, CONNECTOR 7P			
		<RESISTOR>			
R4420	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4421	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4422	1-216-073-00	RES-CHIP	10K	5%	1/10W
R4423	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4424	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		<SWITCH>			
S4402	1-692-431-21	SWITCH, TACTILE (TV/VIDEO)			
S4403	1-692-431-21	SWITCH, TACTILE (VOL -)			
S4404	1-692-431-21	SWITCH, TACTILE (VOL +)			
S4405	1-692-431-21	SWITCH, TACTILE (PROG -)			
S4406	1-692-431-21	SWITCH, TACTILE (PROG +)			

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* A-1372-847-A H4 MOUNT
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*	4-058-315-01	HOLDER, LED			
	4-359-103-00	HOLDER, LED			
		<CAPACITOR>			
C4403	1-126-960-11	ELECT	1µF	20%	50V
C4404	1-126-964-11	ELECT	10µF	20%	50V
		<CONNECTOR>			
CN4401*	1-564-522-11	PLUG, CONNECTOR 7P			
CN4402*	1-564-520-11	PLUG, CONNECTOR 5P			
		<DIODE>			
D4401	8-719-812-31	DIODE TLR123			
D4402	8-719-820-51	DIODE TLSG126			
D4403	8-719-158-49	DIODE UDZ-TE-17-12B			
D4404	8-719-158-49	DIODE UDZ-TE-17-12B			
		<IC>			
IC4401	8-742-129-00	HYB IC SBX1971-51P			
		<TRANSISTOR>			
Q4401	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q4402	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q4403	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR			
Q4404	8-729-900-53	TRANSISTOR DTC114EKA-T146			
		<RESISTOR>			
R4401	1-216-295-11	SHORT	0		
R4402	1-216-025-11	RES-CHIP	100	5%	1/10W
R4403	1-216-025-11	RES-CHIP	100	5%	1/10W
R4404	1-216-041-00	RES-CHIP	470	5%	1/10W
R4405	1-216-041-00	RES-CHIP	470	5%	1/10W
R4406	1-216-097-11	RES-CHIP	100K	5%	1/10W
R4407	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4408	1-216-073-00	RES-CHIP	10K	5%	1/10W
		<SWITCH>			
S4401 ⚠	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)			

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* A-1395-006-A J BOARD, COMPLETE
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		<CAPACITOR>			
C8301	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C8302	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8305	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8306	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8308	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8309	1-126-961-11	ELECT	2.2µF	20%	50V
C8311	1-104-664-11	ELECT	47µF	20%	16V
C8313	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8314	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8318	1-104-664-11	ELECT	47µF	20%	16V
C8319	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8321	1-104-664-11	ELECT	47µF	20%	16V
C8322	1-163-227-11	CERAMIC CHIP	10pF		50V
C8323	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8324	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8325	1-126-964-11	ELECT	10µF	20%	50V
C8327	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C8329	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8331	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8335	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8336	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8337	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8338	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8345	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C8346	1-126-963-11	ELECT	4.7µF	20%	50V
C8347	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8348	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8349	1-104-664-11	ELECT	47µF	20%	16V
C8350	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8351	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8352	1-104-664-11	ELECT	47µF	20%	16V
C8353	1-164-346-11	CERAMIC CHIP	1µF		16V
C8354	1-164-346-11	CERAMIC CHIP	1µF		16V
C8355	1-126-935-11	ELECT	470µF	20%	16V
C8356	1-126-933-11	ELECT	100µF	20%	16V
C8357	1-126-933-11	ELECT	100µF	20%	16V
C8358	1-126-933-11	ELECT	100µF	20%	16V
C8359	1-126-933-11	ELECT	100µF	20%	16V
C8360	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8361	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8401	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8402	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C8403	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8404	1-126-961-11	ELECT	2.2µF	20%	50V
C8405	1-104-664-11	ELECT	47µF	20%	16V
C8406	1-104-664-11	ELECT	47µF	20%	16V
C8408	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8410	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8411	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8414	1-104-664-11	ELECT	47µF	20%	16V
C8415	1-163-227-11	CERAMIC CHIP	10pF		50V
C8416	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8417	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C8418	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8419	1-126-964-11	ELECT	10µF	20%	50V
C8422	1-126-935-11	ELECT	470µF	20%	16V
C8423	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8424	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8427	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8431	1-107-715-11	ELECT	22µF	20%	25V
C8437	1-126-963-11	ELECT	4.7µF	20%	50V
C8441	1-163-227-11	CERAMIC CHIP	10pF		50V
C8442	1-163-227-11	CERAMIC CHIP	10pF		50V
C8444	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8445	1-163-117-00	CERAMIC CHIP	100pF	5%	50V
C8446	1-163-117-00	CERAMIC CHIP	100pF	5%	50V
C8447	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8448	1-126-933-11	ELECT	100µF	20%	16V
C8449	1-126-933-11	ELECT	100µF	20%	16V
C8450	1-126-935-11	ELECT	470µF	20%	16V
C8451	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8452	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8453	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8454	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8455	1-126-964-11	ELECT	10µF	20%	50V
C8456	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8457	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8458	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8459	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8460	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8461	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8462	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8463	1-104-664-11	ELECT	47µF	20%	16V
C8464	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8465	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8466	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8468	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8470	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8479	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8486	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8491	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8492	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8493	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8494	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8495	1-126-964-11	ELECT	10µF	20%	50V
C8497	1-104-664-11	ELECT	47µF	20%	16V
C8501	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8502	1-104-664-11	ELECT	47µF	20%	16V
C8503	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8504	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8505	1-126-933-11	ELECT	100µF	20%	16V
C8506	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C8507	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8508	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8509	1-126-933-11	ELECT	100µF	20%	16V
C8510	1-104-664-11	ELECT	47µF	20%	16V
C8511	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8512	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8513	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8514	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C8515	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8516	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8517	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8518	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8519	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8520	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8521	1-117-720-11	CERAMIC CHIP	4.7µF		10V
C8524	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8525	1-104-664-11	ELECT	47µF	20%	16V
C8526	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8601	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8602	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8603	1-104-664-11	ELECT	47µF	20%	16V
C8604	1-104-664-11	ELECT	47µF	20%	16V
C8605	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8606	1-104-664-11	ELECT	47µF	20%	16V
C8607	1-126-933-11	ELECT	100µF	20%	16V
C8608	1-107-715-11	ELECT	22µF	20%	16V
C8609	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8613	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8614	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8615	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C8616	1-104-664-11	ELECT	47µF	20%	16V

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C8618	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8620	1-104-664-11	ELECT	47µF	20%	16V
C8621	1-104-664-11	ELECT	47µF	20%	16V
C8622	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8623	1-104-664-11	ELECT	47µF	20%	16V
C8624	1-104-664-11	ELECT	47µF	20%	16V
C8625	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8627	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8628	1-104-664-11	ELECT	47µF	20%	16V
C8629	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8631	1-104-664-11	ELECT	47µF	20%	16V
C8632	1-104-664-11	ELECT	47µF	20%	16V
C8635	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C8636	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C8638	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8639	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V
C8640	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C8700	1-126-964-11	ELECT	10µF	20%	50V
C8701	1-104-664-11	ELECT	47µF	20%	16V
C8702	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C8703	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8704	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8705	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8706	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C8707	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C8708	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8709	1-126-964-11	ELECT	10µF	20%	50V
C8710	1-126-933-11	ELECT	100µF	20%	16V
C8805	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C8806	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C8807	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C8808	1-163-227-11	CERAMIC CHIP	10pF		50V
C8811	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8812	1-104-664-11	ELECT	47µF	20%	25V
C8814	1-126-235-11	ELECT	100µF	20%	16V
C8815	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C8816	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C8817	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C8818	1-163-227-11	CERAMIC CHIP	10pF		50V
C8819	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8820	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C8821	1-104-664-11	ELECT	47µF	20%	25V
C8822	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C8823	1-126-933-11	ELECT	100µF	20%	16V
C8824	1-126-933-11	ELECT	100µF	20%	16V
C8825	1-126-933-11	ELECT	100µF	20%	16V
C8900	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8901	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8902	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8903	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8904	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8905	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8906	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8907	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8908	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8909	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8910	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8911	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C8912	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C8913	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C8914	1-104-664-11	ELECT	47µF	20%	16V
C8915	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C8916	1-126-933-11	ELECT	100µF	20%	16V
C8917	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8918	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C8919	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8920	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8921	1-104-664-11	ELECT	47µF	20%	16V
C8922	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8923	1-104-664-11	ELECT	47µF	20%	16V
C8924	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8925	1-104-664-11	ELECT	47µF	20%	16V
C8926	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8927	1-104-664-11	ELECT	47µF	20%	16V
C8928	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8929	1-104-664-11	ELECT	47µF	20%	16V
C8930	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8931	1-104-664-11	ELECT	47µF	20%	16V
C8932	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C8933	1-163-241-11	CERAMIC CHIP	39pF	5%	50V
C8934	1-163-241-11	CERAMIC CHIP	39pF	5%	50V
C8935	1-163-241-11	CERAMIC CHIP	39pF	5%	50V

<CONNECTOR>

CN8101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P
CN8900	1-695-549-11	SOCKET, PIN 21P
CN8901	1-695-549-11	SOCKET, PIN 21P
CN8902	1-695-549-11	SOCKET, PIN 21P
CN8903 *	1-564-526-31	PLUG, CONNECTOR 11P

<DIODE>

D8301	8-719-976-96	DIODE UDZ-TE-17-4.7B
D8302	8-719-976-96	DIODE UDZ-TE-17-4.7B
D8450	8-719-158-49	DIODE UDZ-TE-17-12B
D8451	8-719-158-49	DIODE UDZ-TE-17-12B
D8601	8-719-041-97	DIODE MA113-(TX)
D8900	8-719-056-85	DIODE UDZS-TE17-8.2B
D8901	8-719-056-85	DIODE UDZS-TE17-8.2B
D8902	8-719-056-85	DIODE UDZS-TE17-8.2B
D8903	8-719-056-85	DIODE UDZS-TE17-8.2B
D8904	8-719-056-85	DIODE UDZS-TE17-8.2B
D8905	8-719-056-85	DIODE UDZS-TE17-8.2B
D8906	8-719-056-85	DIODE UDZS-TE17-8.2B
D8907	8-719-158-49	DIODE UDZ-TE-17-12B
D8908	8-719-056-85	DIODE UDZS-TE17-8.2B
D8909	8-719-056-85	DIODE UDZS-TE17-8.2B
D8910	8-719-056-85	DIODE UDZS-TE17-8.2B
D8911	8-719-056-85	DIODE UDZS-TE17-8.2B
D8912	8-719-158-49	DIODE UDZ-TE-17-12B
D8913	8-719-158-49	DIODE UDZ-TE-17-12B
D8914	8-719-158-49	DIODE UDZ-TE-17-12B

REF. NO.	PART NO.	DESCRIPTION	REMARK
D8915	8-719-158-49	DIODE UDZ-TE-17-12B	
D8916	8-719-158-49	DIODE UDZ-TE-17-12B	
D8917	8-719-158-49	DIODE UDZ-TE-17-12B	
D8918	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D8919	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D8920	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D8921	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D8922	8-719-158-49	DIODE UDZ-TE-17-12B	
D8923	8-719-158-49	DIODE UDZ-TE-17-12B	
D8924	8-719-158-49	DIODE UDZ-TE-17-12B	
D8925	8-719-158-49	DIODE UDZ-TE-17-12B	
D8926	8-719-158-49	DIODE UDZ-TE-17-12B	
D8927	8-719-158-49	DIODE UDZ-TE-17-12B	
D8928	8-719-158-49	DIODE UDZ-TE-17-12B	
D8929	8-719-158-49	DIODE UDZ-TE-17-12B	
D8930	8-719-158-49	DIODE UDZ-TE-17-12B	
D8931	8-719-158-49	DIODE UDZ-TE-17-12B	
D8932	8-719-158-49	DIODE UDZ-TE-17-12B	
D8933	8-719-158-49	DIODE UDZ-TE-17-12B	
		<FILTER>	
FL8302	1-236-071-11	ENCAPSULATED COMPONENT	
FL8303	1-236-071-11	ENCAPSULATED COMPONENT	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT	
FL8401	1-236-071-11	ENCAPSULATED COMPONENT	
FL8402	1-236-071-11	ENCAPSULATED COMPONENT	
FL8403	1-236-071-11	ENCAPSULATED COMPONENT	
FL8451	1-236-071-11	ENCAPSULATED COMPONENT	
FL8452	1-236-071-11	ENCAPSULATED COMPONENT	
FL8500	1-236-071-11	ENCAPSULATED COMPONENT	
FL8501	1-236-071-11	ENCAPSULATED COMPONENT	
FL8502	1-233-765-21	FILTER	
FL8503	1-233-768-21	FILTER	
FL8504	1-233-766-21	FILTER	
FL8601	1-236-071-11	ENCAPSULATED COMPONENT	
FL8602	1-233-877-11	FILTER, LOW PASS	
FL8603	1-233-504-21	FILTER, LOW PASS	
FL8604	1-233-504-21	FILTER, LOW PASS	
FL8700	1-236-071-11	ENCAPSULATED COMPONENT	
FL8701	1-236-071-11	ENCAPSULATED COMPONENT	
		<IC>	
IC8301	8-752-096-08	IC CXA2123BQ-T6	
IC8302	8-759-242-76	IC TC7W08F(TE12R)	
IC8303	8-759-242-76	IC TC7W08F(TE12R)	
IC8304	8-759-576-72	IC LF50CDT-TR	
IC8305	8-759-576-72	IC LF50CDT-TR	
IC8401	8-752-096-08	IC CXA2123BQ-T6	
IC8451	8-752-093-50	IC CXA2149Q-TL	
IC8452	8-759-576-76	IC TDA2822D013TR	
IC8500	8-752-390-37	IC CXD2064Q-T6	
IC8601	8-759-572-04	IC TDA9178T/N1.118	
IC8602	8-759-337-26	IC MM1115XFBE	
IC8700	8-752-390-35	IC CXD2057M-T6	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<JACK>	
J8901	1-565-838-11	JACK BLOCK, PIN 2P	
		<COIL>	
L8101	1-402-711-11	INDUCTOR 0µH	
L8102	1-402-711-11	INDUCTOR 0µH	
L8454	1-412-533-21	INDUCTOR 47µH	
L8455	1-412-533-21	INDUCTOR 47µH	
L8552	1-414-234-22	INDUCTOR 0µH	
L8601	1-414-234-22	INDUCTOR 0µH	
L8602	1-414-187-11	INDUCTOR 47µH	
L8604	1-414-182-11	INDUCTOR 6.8µH	
L8606	1-414-234-22	INDUCTOR 0µH	
L8607	1-414-234-22	INDUCTOR 0µH	
L8801	1-412-954-11	INDUCTOR 18µH	
L8802	1-412-954-11	INDUCTOR 18µH	
L8804	1-414-234-22	INDUCTOR 0µH	
L8805	1-414-234-22	INDUCTOR 0µH	
L8806	1-414-234-22	INDUCTOR 0µH	
L8919	1-414-234-22	INDUCTOR 0µH	
		<TRANSISTOR>	
Q8302	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8309	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8311	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8451	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8452	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8502	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8503	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8504	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8601	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8602	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8603	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8604	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8605	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8606	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8607	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8609	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8610	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8611	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8612	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8614	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8616	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8620	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8621	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8623	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8624	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8625	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8626	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8627	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q8628	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
Q8629	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	

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REF. NO.	PART NO.	DESCRIPTION			REMARK
Q8630	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8631	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8632	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8633	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8634	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8635	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8636	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q8637	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q8638	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8639	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8640	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8700	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8801	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8804	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8805	8-729-039-67	TRANSISTOR	BSS83		
Q8807	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8809	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8810	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8811	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8812	8-729-039-67	TRANSISTOR	BSS83		
Q8813	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8814	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8815	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8901	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8902	8-729-026-49	TRANSISTOR	2SA1037AK-T146-QR		
Q8903	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8904	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8905	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q8906	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
		<RESISTOR>			
R8300	1-216-295-11	SHORT	0		
R8301	1-216-025-11	RES-CHIP	100	5%	1/10W
R8302	1-216-017-91	RES-CHIP	47	5%	1/10W
R8303	1-216-295-11	SHORT	0		
R8306	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8307	1-216-295-11	SHORT	0		
R8309	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8315	1-216-295-11	SHORT	0		
R8316	1-216-295-11	SHORT	0		
R8317	1-216-295-11	SHORT	0		
R8318	1-216-295-11	SHORT	0		
R8319	1-216-295-11	SHORT	0		
R8321	1-216-295-11	SHORT	0		
R8323	1-216-017-91	RES-CHIP	47	5%	1/10W
R8326	1-216-017-91	RES-CHIP	47	5%	1/10W
R8327	1-216-121-11	RES-CHIP	1M	5%	1/10W
R8328	1-216-025-11	RES-CHIP	100	5%	1/10W
R8329	1-216-025-11	RES-CHIP	100	5%	1/10W
R8336	1-216-025-11	RES-CHIP	100	5%	1/10W
R8338	1-216-017-91	RES-CHIP	47	5%	1/10W
R8339	1-216-017-91	RES-CHIP	47	5%	1/10W
R8340	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8342	1-216-295-11	SHORT	0		
R8401	1-216-295-11	SHORT	0		
R8402	1-216-295-11	SHORT	0		
R8403	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8405	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R8406	1-216-017-91	RES-CHIP	47	5%	1/10W
R8407	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8409	1-216-017-91	RES-CHIP	47	5%	1/10W
R8410	1-216-025-11	RES-CHIP	100	5%	1/10W
R8411	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8412	1-216-025-11	RES-CHIP	100	5%	1/10W
R8413	1-216-025-11	RES-CHIP	100	5%	1/10W
R8414	1-216-025-11	RES-CHIP	100	5%	1/10W
R8415	1-216-025-11	RES-CHIP	100	5%	1/10W
R8416	1-216-295-11	SHORT	0		
R8417	1-216-295-11	SHORT	0		
R8418	1-216-295-11	SHORT	0		
R8419	1-216-025-11	RES-CHIP	100	5%	1/10W
R8426	1-216-017-91	RES-CHIP	47	5%	1/10W
R8427	1-216-017-91	RES-CHIP	47	5%	1/10W
R8428	1-216-017-91	RES-CHIP	47	5%	1/10W
R8429	1-216-295-11	SHORT	0		
R8430	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8431	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8432	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8433	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8434	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8435	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8436	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R8437	1-216-308-00	RES-CHIP	4.7	5%	1/10W
R8438	1-216-033-00	RES-CHIP	220	5%	1/10W
R8439	1-216-033-00	RES-CHIP	220	5%	1/10W
R8440	1-216-295-11	SHORT	0		
R8441	1-216-295-11	SHORT	0		
R8451	1-216-093-91	RES-CHIP	68K	5%	1/10W
R8452	1-216-093-91	RES-CHIP	68K	5%	1/10W
R8453	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R8454	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8455	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R8458	1-216-033-00	RES-CHIP	220	5%	1/10W
R8459	1-216-033-00	RES-CHIP	220	5%	1/10W
R8466	1-216-025-11	RES-CHIP	100	5%	1/10W
R8467	1-216-025-11	RES-CHIP	100	5%	1/10W
R8468	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8469	1-216-017-91	RES-CHIP	47	5%	1/10W
R8470	1-216-022-00	RES-CHIP	75	5%	1/10W
R8474	1-216-017-91	RES-CHIP	47	5%	1/10W
R8475	1-216-022-00	RES-CHIP	75	5%	1/10W
R8477	1-216-089-11	RES-CHIP	47K	1/10W	
R8478	1-216-689-11	RES-CHIP	39K	1/10W	
R8479	1-216-295-11	SHORT	0		
R8481	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8482	1-216-029-00	RES-CHIP	150	5%	1/10W
R8483	1-216-029-00	RES-CHIP	150	5%	1/10W
R8484	1-216-029-00	RES-CHIP	150	5%	1/10W
R8485	1-216-029-00	RES-CHIP	150	5%	1/10W
R8501	1-216-093-91	RES-CHIP	68K	1/10W	
R8502	1-216-083-00	RES-CHIP	27K	1/10W	
R8503	1-216-295-11	SHORT	0		
R8504	1-216-049-11	RES-CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8505	1-216-295-11	SHORT	0		
R8506	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8507	1-216-295-11	SHORT	0		
R8508	1-216-043-91	RES-CHIP	560	5%	1/10W
R8509	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R8510	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R8512	1-216-295-11	SHORT	0		
R8514	1-216-017-91	RES-CHIP	47	5%	1/10W
R8517	1-216-295-11	SHORT	0		
R8519	1-216-639-11	METAL CHIP	330	0.5%	1/10W
R8520	1-216-041-00	RES-CHIP	470	5%	1/10W
R8521	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8522	1-216-041-00	RES-CHIP	470	5%	1/10W
R8523	1-216-033-00	RES-CHIP	220	5%	1/10W
R8524	1-216-295-11	SHORT	0		
R8526	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8527	1-216-047-91	RES-CHIP	820	5%	1/10W
R8528	1-216-047-91	RES-CHIP	820	5%	1/10W
R8529	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R8530	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8531	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R8532	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R8533	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R8534	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R8535	1-216-295-11	SHORT	0		
R8536	1-216-295-11	SHORT	0		
R8537	1-216-295-11	SHORT	0		
R8600	1-216-295-11	SHORT	0		
R8601	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8602	1-216-295-11	SHORT	0		
R8603	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8604	1-216-041-00	RES-CHIP	470	5%	1/10W
R8605	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8606	1-216-025-11	RES-CHIP	100	5%	1/10W
R8607	1-216-043-91	RES-CHIP	560	5%	1/10W
R8608	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8609	1-216-041-00	RES-CHIP	470	5%	1/10W
R8610	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8611	1-216-041-00	RES-CHIP	470	5%	1/10W
R8612	1-216-025-11	RES-CHIP	100	5%	1/10W
R8613	1-216-025-11	RES-CHIP	100	5%	1/10W
R8614	1-216-295-11	SHORT	0		
R8616	1-216-295-11	SHORT	0		
R8617	1-208-772-11	METAL CHIP	390	0.5%	1/10W
R8618	1-208-778-11	METAL CHIP	680	0.5%	1/10W
R8619	1-216-295-11	SHORT	0		
R8621	1-216-025-11	RES-CHIP	100	5%	1/10W
R8622	1-216-013-00	RES-CHIP	33	5%	1/10W
R8623	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8624	1-216-041-00	RES-CHIP	470	5%	1/10W
R8625	1-216-689-11	RES-CHIP	39K	5%	1/10W
R8626	1-216-041-00	RES-CHIP	470	5%	1/10W
R8627	1-216-041-00	RES-CHIP	470	5%	1/10W
R8628	1-216-689-11	RES-CHIP	39K	5%	1/10W
R8629	1-216-041-00	RES-CHIP	470	5%	1/10W
R8630	1-216-025-11	RES-CHIP	100	5%	1/10W
R8631	1-216-295-11	SHORT	0		
R8632	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8633	1-216-041-00	RES-CHIP	470	5%	1/10W
R8634	1-216-041-00	RES-CHIP	470	5%	1/10W
R8635	1-216-085-00	RES-CHIP	33K	5%	1/10W
R8636	1-216-041-00	RES-CHIP	470	5%	1/10W
R8640	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8642	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8644	1-216-041-00	RES-CHIP	470	5%	1/10W
R8645	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8646	1-216-295-11	SHORT	0		
R8647	1-216-025-11	RES-CHIP	100	5%	1/10W
R8648	1-216-025-11	RES-CHIP	100	5%	1/10W
R8649	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8650	1-216-295-11	SHORT	0		
R8652	1-216-037-00	RES-CHIP	330	5%	1/10W
R8653	1-216-041-00	RES-CHIP	470	5%	1/10W
R8654	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R8655	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8659	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8660	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8661	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8664	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8665	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8666	1-216-295-11	SHORT	0		
R8667	1-216-043-91	RES-CHIP	560	5%	1/10W
R8670	1-216-039-00	RES-CHIP	390	5%	1/10W
R8671	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8672	1-216-295-11	SHORT	0		
R8673	1-216-079-00	RES-CHIP	18K	5%	1/10W
R8675	1-216-037-00	RES-CHIP	330	5%	1/10W
R8676	1-216-295-11	SHORT	0		
R8677	1-216-041-00	RES-CHIP	470	5%	1/10W
R8678	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R8679	1-216-041-00	RES-CHIP	470	5%	1/10W
R8680	1-216-295-11	SHORT	0		
R8681	1-216-041-00	RES-CHIP	470	5%	1/10W
R8682	1-216-031-00	RES-CHIP	180	5%	1/10W
R8683	1-216-041-00	RES-CHIP	470	5%	1/10W
R8684	1-216-295-11	SHORT	0		
R8685	1-216-041-00	RES-CHIP	470	5%	1/10W
R8686	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8687	1-216-037-00	RES-CHIP	330	5%	1/10W
R8688	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8689	1-216-041-00	RES-CHIP	470	5%	1/10W
R8690	1-216-041-00	RES-CHIP	470	5%	1/10W
R8692	1-216-041-00	RES-CHIP	470	5%	1/10W
R8693	1-216-041-00	RES-CHIP	470	5%	1/10W
R8694	1-216-041-00	RES-CHIP	470	5%	1/10W
R8695	1-216-013-00	RES-CHIP	33	5%	1/10W
R8696	1-216-013-00	RES-CHIP	33	5%	1/10W
R8697	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R8698	1-216-031-00	RES-CHIP	180	5%	1/10W
R8699	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8700	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8701	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8702	1-216-025-11	RES-CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R8703	1-216-025-11	RES-CHIP	100	5%	1/10W
R8704	1-216-025-11	RES-CHIP	100	5%	1/10W
R8705	1-216-295-11	SHORT	0		
R8706	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8707	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8708	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8709	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R8710	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8711	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8712	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8713	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8714	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8715	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8716	1-216-043-91	RES-CHIP	560	5%	1/10W
R8717	1-216-037-00	RES-CHIP	330	5%	1/10W
R8718	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8719	1-216-043-91	RES-CHIP	560	5%	1/10W
R8720	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R8721	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8722	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8723	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8724	1-216-095-00	RES-CHIP	82K	5%	1/10W
R8725	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8726	1-216-295-11	SHORT	0		
R8727	1-216-045-00	RES-CHIP	680	5%	1/10W
R8728	1-216-045-00	RES-CHIP	680	5%	1/10W
R8729	1-216-033-00	RES-CHIP	220	5%	1/10W
R8730	1-216-295-11	SHORT	0		
R8801	1-216-035-00	RES-CHIP	270	5%	1/10W
R8804	1-216-033-00	RES-CHIP	220	5%	1/10W
R8805	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R8809	1-216-085-00	RES-CHIP	33K	5%	1/10W
R8810	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8812	1-216-037-00	RES-CHIP	330	5%	1/10W
R8813	1-216-037-00	RES-CHIP	330	5%	1/10W
R8815	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8816	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8818	1-216-642-11	METAL CHIP	430	0.5%	1/10W
R8821	1-216-025-11	RES-CHIP	100	5%	1/10W
R8823	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8826	1-216-295-11	SHORT	0		
R8827	1-216-295-11	SHORT	0		
R8828	1-216-029-00	RES-CHIP	150	5%	1/10W
R8831	1-216-031-00	RES-CHIP	180	5%	1/10W
R8832	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8833	1-216-295-11	SHORT	0		
R8834	1-216-037-00	RES-CHIP	330	5%	1/10W
R8835	1-216-037-00	RES-CHIP	330	5%	1/10W
R8836	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8837	1-216-689-11	RES-CHIP	39K	5%	1/10W
R8838	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8839	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8840	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8841	1-216-642-11	METAL CHIP	430	0.5%	1/10W
R8842	1-216-025-11	RES-CHIP	100	5%	1/10W
R8843	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8844	1-216-295-11	SHORT	0		
R8845	1-216-041-00	RES-CHIP	470	5%	1/10W
R8846	1-216-041-00	RES-CHIP	470	5%	1/10W
R8847	1-216-041-00	RES-CHIP	470	5%	1/10W
R8850	1-216-295-11	SHORT	0		
R8851	1-216-295-11	SHORT	0		
R8853	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8854	1-216-085-00	RES-CHIP	33K	5%	1/10W
R8900	1-216-039-00	RES-CHIP	390	5%	1/10W
R8901	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8902	1-216-039-00	RES-CHIP	390	5%	1/10W
R8903	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8904	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8905	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8906	1-216-035-00	RES-CHIP	270	5%	1/10W
R8907	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8908	1-216-035-00	RES-CHIP	270	5%	1/10W
R8909	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8910	1-216-295-11	SHORT	0		
R8911	1-216-025-11	RES-CHIP	100	5%	1/10W
R8912	1-216-295-11	SHORT	0		
R8913	1-216-022-00	RES-CHIP	75	5%	1/10W
R8914	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8915	1-216-022-00	RES-CHIP	75	5%	1/10W
R8916	1-216-017-91	RES-CHIP	47	5%	1/10W
R8917	1-216-017-91	RES-CHIP	47	5%	1/10W
R8918	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8919	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8920	1-216-295-11	SHORT	0		
R8921	1-216-295-11	SHORT	0		
R8922	1-216-022-00	RES-CHIP	75	5%	1/10W
R8923	1-216-022-00	RES-CHIP	75	5%	1/10W
R8924	1-216-022-00	RES-CHIP	75	5%	1/10W
R8925	1-216-022-00	RES-CHIP	75	5%	1/10W
R8926	1-216-017-91	RES-CHIP	47	5%	1/10W
R8927	1-216-017-91	RES-CHIP	47	5%	1/10W
R8928	1-216-017-91	RES-CHIP	47	5%	1/10W
R8929	1-216-039-00	RES-CHIP	390	5%	1/10W
R8930	1-216-049-11	RES-CHIP	1K		1/10W
R8931	1-216-039-00	RES-CHIP	390	5%	1/10W
R8932	1-216-049-11	RES-CHIP	1K		1/10W
R8933	1-216-089-11	RES-CHIP	47K		1/10W
R8934	1-216-089-11	RES-CHIP	47K		1/10W
R8935	1-216-113-00	RES-CHIP	470K		1/10W
R8936	1-216-113-00	RES-CHIP	470K		1/10W
R8937	1-216-035-00	RES-CHIP	270	5%	1/10W
R8938	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8939	1-216-035-00	RES-CHIP	270	5%	1/10W
R8940	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8941	1-216-025-11	RES-CHIP	100	5%	1/10W
R8942	1-216-009-91	RES-CHIP	22	5%	1/10W
R8943	1-216-022-00	RES-CHIP	75	5%	1/10W
R8944	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8945	1-216-022-00	RES-CHIP	75	5%	1/10W
R8946	1-216-017-91	RES-CHIP	47	5%	1/10W
R8947	1-216-039-00	RES-CHIP	390	5%	1/10W
R8948	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8949	1-216-022-00	RES-CHIP	75	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8950	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8951	1-216-017-91	RES-CHIP	47	5%	1/10W
R8952	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8953	1-216-035-00	RES-CHIP	270	5%	1/10W
R8954	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8955	1-216-039-00	RES-CHIP	390	5%	1/10W
R8956	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8957	1-216-025-11	RES-CHIP	100	5%	1/10W
R8958	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8959	1-216-022-00	RES-CHIP	75	5%	1/10W
R8960	1-216-017-91	RES-CHIP	47	5%	1/10W
R8961	1-216-022-00	RES-CHIP	75	5%	1/10W
R8962	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8963	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8964	1-216-035-00	RES-CHIP	270	5%	1/10W
R8965	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8966	1-216-037-00	RES-CHIP	330	5%	1/10W
R8967	1-216-037-00	RES-CHIP	330	5%	1/10W
R8968	1-216-022-00	RES-CHIP	75	5%	1/10W
R8969	1-216-017-91	RES-CHIP	47	5%	1/10W
R8972	1-216-045-00	RES-CHIP	680	5%	1/10W
R8973	1-216-045-00	RES-CHIP	680	5%	1/10W
R8974	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8975	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8976	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8977	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8978	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8979	1-216-295-11	SHORT	0		
R8981	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8982	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8983	1-216-689-11	RES-CHIP	39K	5%	1/10W
R8984	1-216-295-11	SHORT	0		
R8985	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8986	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8987	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8988	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R8994	1-216-073-00	RES-CHIP	10K	5%	1/10W
R8995	1-216-089-11	RES-CHIP	47K	5%	1/10W
R8996	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8997	1-216-049-11	RES-CHIP	1K	5%	1/10W

<TERMINAL BOARD>

TB8101	1-537-712-11	TERMINAL, PUSH

<CRYSTAL>

X8301	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)
X8401	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)
X8700	1-767-342-21	VIBRATOR, CRYSTAL (14.3MHz)

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REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1306-594-A	M BOARD, COMPLETE			
		**********			
	1-540-151-21	SOCKET, IC			

<CAPACITOR>

C9100	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C9101	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9102	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9103	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9104	1-126-933-11	ELECT	100µF	20%	16V
C9105	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9106	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9107	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9109	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9110	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C9111	1-164-344-11	CERAMIC CHIP	0.068µF	10%	25V
C9112	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9113	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9114	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9115	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C9116	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9117	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9118	1-104-664-11	ELECT	47µF	20%	16V
C9119	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C9120	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9121	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9122	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C9123	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9124	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9125	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9126	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C9127	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C9128	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C9129	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C9130	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C9131	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C9132	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9133	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C9400	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C9501	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9503	1-126-964-11	ELECT	10µF	20%	50V
C9504	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9505	1-126-933-11	ELECT	100µF	20%	16V
C9506	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9507	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C9508	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C9509	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9510	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C9511	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9512	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9513	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C9514	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C9515	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C9516	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C9517	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION				REMARK
C9518	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V	
C9519	1-126-964-11	ELECT	10µF	20%	50V	
C9520	1-163-239-11	CERAMIC CHIP	33pF	5%	50V	
C9521	1-163-239-11	CERAMIC CHIP	33pF	5%	50V	
C9522	1-163-239-11	CERAMIC CHIP	33pF	5%	50V	
C9701	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9703	1-104-664-11	ELECT	47µF	20%	16V	
C9704	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9707	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9708	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9709	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C9711	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C9714	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C9716	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9721	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9722	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9723	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9724	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C9725	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	
C9726	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9727	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C9729	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	

<CONNECTOR>

CN9001	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	

<DIODE>

D9100	8-719-988-61	DIODE	1SS355TE-17
D9101	8-719-988-61	DIODE	1SS355TE-17
D9102	8-719-988-61	DIODE	1SS355TE-17
D9103	8-719-988-61	DIODE	1SS355TE-17
D9104	8-719-056-83	DIODE	UDZ-TE-17-6.8B
D9105	8-719-988-61	DIODE	1SS355TE-17
D9107	8-719-025-31	DIODE	02CZ5.6-TE85L
D9108	8-719-914-44	DIODE	DAP202K-T-146
D9109	8-719-105-91	DIODE	MA3056M-TX
D9110	8-719-914-43	DIODE	DAN202K-T-146
D9111	8-719-105-91	DIODE	MA3056M-TX
D9112	8-719-073-01	DIODE	MA111-TX
D9113	8-719-073-01	DIODE	MA111-TX

<FILTER>

FL9101	1-236-071-11	ENCAPSULATED COMPONENT
FL9500	1-236-071-11	ENCAPSULATED COMPONENT
FL9501	1-236-071-11	ENCAPSULATED COMPONENT

<IC>

IC9100	8-759-988-13	IC	LM393PS-E20
IC9101	8-752-072-94	IC	CXA1875AM-T4
IC9102	8-759-058-56	IC	TC7S02FU(TE85R)
IC9103	8-759-478-92	IC	TC7SET04FU(TE85R)
IC9104	8-759-259-18	IC	MB3793-42PNF-ER
IC9105	8-759-686-50	IC	SAB-C161PI-LM
IC9107	8-759-688-66	IC	TC554001AF-70L (EL)
IC9108	8-759-564-06	IC	M24C32-MN6T
IC9109	8-759-695-73	IC	M27C800-100K1-LE3-1
IC9110	8-759-009-22	IC	MC14094BF-T2
IC9111	8-759-421-24	IC	MN1381-S(TA)
IC9400	8-759-680-29	IC	M29F040B-70N1T
IC9500	8-759-242-72	IC	TC7W00F(TE12R)
IC9501	8-759-666-17	IC	MSM5116400D-60SJR1
IC9502	8-759-665-84	IC	SDA5275-3PC02-22
IC9701	8-759-013-86	IC	MC74HC4066FEL
IC9703	8-759-683-18	IC	MB94918RpF-G-102-BND
IC9704	8-759-825-74	IC	M27C1001-45XC1-LE3A-1
IC9705	8-759-825-75	IC	M27C1001-45XC1-LE3B-1
IC9706	8-759-421-24	IC	MN1381-S(TA)
IC9707	8-759-527-76	IC	M24C08-MN6T
IC9708	8-759-196-96	IC	TC7SH08FU-TE85R
IC9709 *	8-759-524-24	IC	TC7WT241FU(TE12R)

<COIL>

L9400	1-412-029-11	INDUCTOR	10µH
L9401	1-412-029-11	INDUCTOR	10µH
L9402	1-412-004-31	INDUCTOR	6.8µH
L9403	1-412-004-31	INDUCTOR	6.8µH
L9404	1-412-004-31	INDUCTOR	6.8µH
L9501	1-412-029-11	INDUCTOR	10µH
L9701	1-408-607-31	INDUCTOR	22µH

<TRANSISTOR>

Q9100	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R
Q9101	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R
Q9102	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q9103	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R
Q9104	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q9106	8-729-027-46	TRANSISTOR	DTC114YKA-T146
Q9107	8-729-027-46	TRANSISTOR	DTC114YKA-T146
Q9108	8-729-027-46	TRANSISTOR	DTC114YKA-T146
Q9109	8-729-027-46	TRANSISTOR	DTC114YKA-T146
Q9110	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R
Q9111	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q9112	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R
Q9113	8-729-900-53	TRANSISTOR	DTC114EKA-T146
Q9114	8-729-027-38	TRANSISTOR	DTA144EKA-T146
Q9115	8-729-900-53	TRANSISTOR	DTC114EKA-T146
Q9116	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q9117	8-729-900-53	TRANSISTOR	DTC114EKA-T146
Q9500	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q9501	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q9502	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q9503	8-729-900-53	TRANSISTOR	DTC114EKA-T146
Q9504	8-729-900-53	TRANSISTOR	DTC114EKA-T146
Q9701	8-729-900-53	TRANSISTOR	DTC114EKA-T146
Q9702	8-729-027-23	TRANSISTOR	DTA114EKA-T146
Q9703	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R
Q9704	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q9710	8-729-900-53	TRANSISTOR	DTC114EKA-T146

REF. NO.	PART NO.	DESCRIPTION			REMARK
Q9712	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R			
		<RESISTOR>			
R9100	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9101	1-216-033-00	RES-CHIP	220	5%	1/10W
R9102	1-216-033-00	RES-CHIP	220	5%	1/10W
R9103	1-216-025-11	RES-CHIP	100	5%	1/10W
R9104	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9105	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9107	1-216-295-11	SHORT	0		
R9108	1-216-295-11	SHORT	0		
R9109	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9110	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9111	1-216-025-11	RES-CHIP	100	5%	1/10W
R9112	1-216-025-11	RES-CHIP	100	5%	1/10W
R9113	1-216-033-00	RES-CHIP	220	5%	1/10W
R9114	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9115	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9116	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9117	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9118	1-216-025-11	RES-CHIP	100	5%	1/10W
R9119	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9120	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9121	1-216-017-91	RES-CHIP	47	5%	1/10W
R9122	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9123	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9124	1-216-025-11	RES-CHIP	100	5%	1/10W
R9125	1-216-025-11	RES-CHIP	100	5%	1/10W
R9126	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9127	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9128	1-249-411-11	CARBON	330	5%	1/4W
R9129	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9130	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9131	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9132	1-216-025-11	RES-CHIP	100	5%	1/10W
R9133	1-216-033-00	RES-CHIP	220	5%	1/10W
R9134	1-216-025-11	RES-CHIP	100	5%	1/10W
R9135	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9136	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9137	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9138	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9139	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9141	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9142	1-216-041-00	RES-CHIP	470	5%	1/10W
R9143	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9145	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9146	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9148	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9149	1-216-025-11	RES-CHIP	100	5%	1/10W
R9150	1-216-025-11	RES-CHIP	100	5%	1/10W
R9153	1-216-025-11	RES-CHIP	100	5%	1/10W
R9157	1-216-025-11	RES-CHIP	100	5%	1/10W
R9159	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9161	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9162	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9164	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9166	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9168	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9169	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9172	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9173	1-216-295-11	SHORT	0		
R9174	1-216-025-11	RES-CHIP	100	5%	1/10W
R9175	1-216-025-11	RES-CHIP	100	5%	1/10W
R9176	1-216-025-11	RES-CHIP	100	5%	1/10W
R9177	1-216-025-11	RES-CHIP	100	5%	1/10W
R9178	1-216-025-11	RES-CHIP	100	5%	1/10W
R9179	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9180	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9181	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9182	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9183	1-216-025-11	RES-CHIP	100	5%	1/10W
R9184	1-216-025-11	RES-CHIP	100	5%	1/10W
R9185	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9186	1-216-025-11	RES-CHIP	100	5%	1/10W
R9187	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9188	1-216-025-11	RES-CHIP	100	5%	1/10W
R9189	1-216-025-11	RES-CHIP	100	5%	1/10W
R9190	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9191	1-216-025-11	RES-CHIP	100	5%	1/10W
R9192	1-216-025-11	RES-CHIP	100	5%	1/10W
R9193	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9194	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9195	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9196	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9197	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9198	1-216-017-91	RES-CHIP	47	5%	1/10W
R9199	1-216-017-91	RES-CHIP	47	5%	1/10W
R9201	1-216-025-11	RES-CHIP	100	5%	1/10W
R9202	1-216-025-11	RES-CHIP	100	5%	1/10W
R9203	1-216-017-91	RES-CHIP	47	5%	1/10W
R9204	1-216-017-91	RES-CHIP	47	5%	1/10W
R9501	1-216-017-91	RES-CHIP	47	5%	1/10W
R9502	1-216-295-11	SHORT	0		
R9504	1-216-041-00	RES-CHIP	470	5%	1/10W
R9505	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R9506	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9507	1-216-097-11	RES-CHIP	100K	5%	1/10W
R9508	1-216-295-11	SHORT	0		
R9509	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9510	1-216-041-00	RES-CHIP	470	5%	1/10W
R9511	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9512	1-216-041-00	RES-CHIP	470	5%	1/10W
R9513	1-216-041-00	RES-CHIP	470	5%	1/10W
R9514	1-216-017-91	RES-CHIP	47	5%	1/10W
R9518	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9519	1-216-039-00	RES-CHIP	390	5%	1/10W
R9520	1-216-039-00	RES-CHIP	390	5%	1/10W
R9521	1-216-039-00	RES-CHIP	390	5%	1/10W
R9522	1-216-017-91	RES-CHIP	47	5%	1/10W
R9523	1-216-017-91	RES-CHIP	47	5%	1/10W
R9524	1-216-017-91	RES-CHIP	47	5%	1/10W
R9525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9526	1-216-057-00	RES-CHIP	2.2K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R9527	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9528	1-216-025-11	RES-CHIP	100	5%	1/10W
R9529	1-216-025-11	RES-CHIP	100	5%	1/10W
R9530	1-216-025-11	RES-CHIP	100	5%	1/10W
R9531	1-216-295-11	SHORT	0		
R9532	1-216-295-11	SHORT	0		
R9701	1-216-295-11	SHORT	0		
R9702	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9703	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9704	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9705	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9706	1-216-025-11	RES-CHIP	100	5%	1/10W
R9707	1-216-025-11	RES-CHIP	100	5%	1/10W
R9708	1-216-025-11	RES-CHIP	100	5%	1/10W
R9709	1-216-025-11	RES-CHIP	100	5%	1/10W
R9710	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9711	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9712	1-216-025-11	RES-CHIP	100	5%	1/10W
R9713	1-216-025-11	RES-CHIP	100	5%	1/10W
R9714	1-216-025-11	RES-CHIP	100	5%	1/10W
R9715	1-216-025-11	RES-CHIP	100	5%	1/10W
R9717	1-216-025-11	RES-CHIP	100	5%	1/10W
R9718	1-216-025-11	RES-CHIP	100	5%	1/10W
R9719	1-216-025-11	RES-CHIP	100	5%	1/10W
R9723	1-216-295-11	SHORT	0		
R9724	1-216-295-11	SHORT	0		
R9726	1-216-025-11	RES-CHIP	100	5%	1/10W
R9727	1-216-025-11	RES-CHIP	100	5%	1/10W
R9733	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9734	1-216-033-00	RES-CHIP	220	5%	1/10W
R9735	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9737	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9739	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9740	1-216-033-00	RES-CHIP	220	5%	1/10W
R9749	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9751	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9752	1-216-033-00	RES-CHIP	220	5%	1/10W
R9753	1-216-017-91	RES-CHIP	47	5%	1/10W
R9754	1-216-017-91	RES-CHIP	47	5%	1/10W
R9755	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9756	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9757	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9764	1-216-025-11	RES-CHIP	100	5%	1/10W
R9765	1-216-025-11	RES-CHIP	100	5%	1/10W
R9766	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9767	1-216-033-00	RES-CHIP	220	5%	1/10W
R9769	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9770	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9772	1-216-025-11	RES-CHIP	100	5%	1/10W
R9773	1-216-025-11	RES-CHIP	100	5%	1/10W
R9774	1-216-025-11	RES-CHIP	100	5%	1/10W
R9776	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9777	1-216-033-00	RES-CHIP	220	5%	1/10W
R9780	1-216-025-11	RES-CHIP	100	5%	1/10W
R9781	1-216-025-11	RES-CHIP	100	5%	1/10W
R9782	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9783	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9784	1-216-025-11	RES-CHIP	100	5%	1/10W
R9785	1-216-025-11	RES-CHIP	100	5%	1/10W
R9786	1-216-025-11	RES-CHIP	100	5%	1/10W
R9787	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9788	1-216-025-11	RES-CHIP	100	5%	1/10W
R9789	1-216-025-11	RES-CHIP	100	5%	1/10W
R9792	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9794	1-216-025-11	RES-CHIP	100	5%	1/10W

<RESISTER BLOCK>

RB9101	1-239-412-11	NETWORK RESISTOR (CHIP) 100			

<CRYSTAL>

X9101	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			
X9500	1-760-551-21	VIBRATOR, CERAMIC (20.480MHz)			
X9701	1-760-014-11	VIBRATOR, CERAMIC (20MHz)			

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* A-1395-017-A N BOARD, COMPLETE
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<CAPACITOR>

C2330	1-104-664-11	ELECT	47µF	20%	16V
C2331	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2332	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2341	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C2344	1-126-933-11	ELECT	100µF	20%	16V
C2347	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2501	1-126-933-11	ELECT	100µF	20%	16V
C2502	1-104-664-11	ELECT	47µF	20%	16V
C2504	1-163-255-11	CERAMIC CHIP	150pF	5%	50V
C2505	1-163-255-11	CERAMIC CHIP	150pF	5%	50V
C2506	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C2507	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C2508	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2509	1-126-968-11	ELECT	100µF	20%	50V
C2510	1-126-968-11	ELECT	100µF	20%	50V
C2511	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2512	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2513	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2515	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2516	1-126-964-11	ELECT	10µF	20%	50V
C2518	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2519	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2521	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2522	1-126-967-11	ELECT	47µF	20%	50V
C2523	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2524	1-126-964-11	ELECT	10µF	20%	50V
C2525	1-104-664-11	ELECT	47µF	20%	16V
C2526	1-126-933-11	ELECT	100µF	20%	16V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C2528	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2529	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C2530	1-163-087-00	CERAMIC CHIP	4pF		50V
C2531	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2533	1-104-664-11	ELECT	47µF	20%	16V
C2535	1-104-664-11	ELECT	47µF	20%	16V
C2536	1-104-664-11	ELECT	47µF	20%	16V
C2537	1-104-664-11	ELECT	47µF	20%	16V
C2538	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2539	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2540	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2541	1-163-135-00	CERAMIC CHIP	560pF	5%	50V
C2542	1-163-255-11	CERAMIC CHIP	150pF	5%	50V
C2543	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C2544	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C2545	1-163-113-00	CERAMIC CHIP	68pF	5%	50V
C2546	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2547	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C2548	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V
C2550	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C2551	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C2552	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C2553	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C2567	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2568	1-104-664-11	ELECT	47µF	20%	16V
C2571	1-126-966-11	ELECT	33µF	20%	16V
C2572	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2573	1-104-664-11	ELECT	47µF	20%	16V
C2575	1-126-966-11	ELECT	33µF	20%	16V
C2586	1-126-933-11	ELECT	100µF	20%	16V
C2588	1-126-933-11	ELECT	100µF	20%	16V

<CONNECTOR>

CN2301	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	

<DIODE>

D2502	8-719-914-43	DIODE	DAN202K-T-146
D2503	8-719-914-43	DIODE	DAN202K-T-146
D2504	8-719-914-43	DIODE	DAN202K-T-146

<DELAY LINE>

DL2501	1-234-532-11	FILTER, LOW PASS	
DL2502	1-234-532-11	FILTER, LOW PASS	

<FILTER>

FL2301	1-236-071-11	ENCAPSULATED COMPONENT	
FL2501	1-234-515-11	FILTER, LOW PASS	

<IC>

IC2501	8-759-710-86	IC	NJM2233BM(TE2)
IC2502	8-759-196-69	IC	BA7655AF-E2
IC2503	8-759-710-24	IC	NJM319M-TE2
IC2504	8-759-708-05	IC	TA78L005AP-TPE6
IC2505	8-752-072-94	IC	CXA1875AM-T4

<COIL>

L2503	1-410-426-11	INDUCTOR	39µH
L2504	1-410-431-11	INDUCTOR	100µH
L2505	1-410-431-11	INDUCTOR	100µH
L2506	1-408-615-31	INDUCTOR	100µH
L2507	1-408-615-31	INDUCTOR	100µH
L2508	1-408-605-31	INDUCTOR	15µH
L2509	1-410-419-21	INDUCTOR	10µH

<TRANSISTOR>

Q2324	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2325	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2326	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2327	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2335	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2338	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2341	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2342	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2504	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2506	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2507	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2508	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2509	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2510	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2511	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2512	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2513	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2514	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2515	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2516	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2517	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2518	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2519	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2520	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2521	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2522	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2523	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2524	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2525	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2526	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2527	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2528	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2529	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2530	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2531	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2532	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2533	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2534	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2555	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R
Q2558	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2560	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
Q2561	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR

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REF. NO.	PART NO.	DESCRIPTION			REMARK
Q2566	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R		
Q2567	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q2568	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q2569	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q2571	8-729-216-22	TRANSISTOR	2SA1037K-T-146-R		
		<RESISTOR>			
R2301	1-216-017-91	RES-CHIP	47	5%	1/10W
R2306	1-216-295-11	SHORT	0		
R2307	1-216-295-11	SHORT	0		
R2334	1-216-017-91	RES-CHIP	47	5%	1/10W
R2335	1-216-017-91	RES-CHIP	47	5%	1/10W
R2336	1-216-017-91	RES-CHIP	47	5%	1/10W
R2337	1-216-017-91	RES-CHIP	47	5%	1/10W
R2338	1-216-017-91	RES-CHIP	47	5%	1/10W
R2350	1-216-017-91	RES-CHIP	47	5%	1/10W
R2351	1-216-025-11	RES-CHIP	100	1/10W	
R2352	1-216-025-11	RES-CHIP	100	1/10W	
R2370	1-216-295-11	SHORT	0		
R2371	1-216-045-00	RES-CHIP	680	1/10W	
R2372	1-216-071-00	RES-CHIP	8.2K	1/10W	
R2373	1-216-295-11	SHORT	0		
R2374	1-216-045-00	RES-CHIP	680	5%	1/10W
R2375	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2383	1-216-295-11	SHORT	0		
R2400	1-216-295-11	SHORT	0		
R2401	1-216-077-91	RES-CHIP	15K	5%	1/10W
R2402	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2403	1-216-041-00	RES-CHIP	470	5%	1/10W
R2404	1-216-041-00	RES-CHIP	470	5%	1/10W
R2406	1-216-295-11	SHORT	0		
R2407	1-216-658-11	METAL CHIP	2K	0.5%	1/10W
R2418	1-216-017-91	RES-CHIP	47	5%	1/10W
R2421	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R2422	1-216-295-11	SHORT	0		
R2426	1-216-637-11	METAL CHIP	270	0.5%	1/10W
R2427	1-216-637-11	METAL CHIP	270	0.5%	1/10W
R2428	1-216-045-00	RES-CHIP	680	5%	1/10W
R2502	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R2503	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R2505	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R2506	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R2511	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R2513	1-216-637-11	METAL CHIP	270	0.5%	1/10W
R2514	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R2515	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2516	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R2517	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2518	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2519	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2521	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R2522	1-216-025-11	RES-CHIP	100	5%	1/10W
R2523	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2525	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2526	1-216-033-00	RES-CHIP	220	5%	1/10W
R2527	1-216-017-91	RES-CHIP	47	5%	1/10W
R2528	1-216-033-00	RES-CHIP	220	5%	1/10W
R2529	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2530	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2531	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R2532	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2534	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2535	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2536	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R2537	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R2538	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2539	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R2540	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2541	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R2542	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R2543	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R2544	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2545	1-216-623-11	METAL CHIP	68	0.5%	1/10W
R2546	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R2547	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2548	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2549	1-216-623-11	METAL CHIP	68	0.5%	1/10W
R2551	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R2552	1-216-295-11	SHORT	0		
R2553	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2554	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R2555	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2556	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2557	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R2558	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2559	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R2560	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2561	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R2562	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R2563	1-216-669-11	METAL CHIP	5.6K	0.5%	1/10W
R2564	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R2565	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R2566	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R2567	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2568	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R2569	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R2570	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2571	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R2572	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R2573	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R2574	1-216-295-11	SHORT	0		
R2575	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2576	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R2577	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2578	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2579	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R2580	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2581	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2582	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R2583	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2584	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2585	1-216-081-00	RES-CHIP	22K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R2586	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2587	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2588	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2589	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2590	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R2591	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2592	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R2593	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2594	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R2611	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R2614	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R2615	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R2640	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2642	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R2644	1-216-045-00	RES-CHIP	680	5%	1/10W
R2647	1-216-045-00	RES-CHIP	680	5%	1/10W
R2648	1-216-637-11	METAL CHIP	270	0.5%	1/10W
R2651	1-216-045-00	RES-CHIP	680	5%	1/10W
R2652	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R2653	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R2654	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2657	1-216-045-00	RES-CHIP	680	5%	1/10W
R2664	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2666	1-216-045-00	RES-CHIP	680	5%	1/10W
R2669	1-216-045-00	RES-CHIP	680	5%	1/10W
R2670	1-216-637-11	METAL CHIP	270	0.5%	1/10W
R2671	1-216-045-00	RES-CHIP	680	5%	1/10W
R2672	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R2673	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R2674	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2675	1-216-045-00	RES-CHIP	680	5%	1/10W
R2677	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2679	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2682	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W
R2684	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R2687	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2688	1-216-295-11	SHORT	0		
R2690	1-216-295-11	SHORT	0		
R2693	1-216-295-11	SHORT	0		
R2694	1-216-295-11	SHORT	0		
R2696	1-216-295-11	SHORT	0		
R2697	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2700	1-216-295-11	SHORT	0		
R2701	1-216-295-11	SHORT	0		
R2702	1-216-295-11	SHORT	0		
R2704	1-216-295-11	SHORT	0		
R2705	1-216-049-11	RES-CHIP	1K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
* A-1395-005-A S BOARD, COMPLETE					
**********					
<CAPACITOR>					
C4701	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C4702	1-163-241-11	CERAMIC CHIP	39pF	5%	50V
C4708	1-163-087-00	CERAMIC CHIP	4pF		50V
C4709	1-163-087-00	CERAMIC CHIP	4pF		50V
C4710	1-104-664-11	ELECT	47µF	20%	16V
C4711	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4712	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4713	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4714	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C4715	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C4716	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C4717	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C4718	1-164-506-11	CERAMIC CHIP	4.7µF		16V
C4719	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4722	1-104-664-11	ELECT	47µF	20%	16V
C4723	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4727	1-164-506-11	CERAMIC CHIP	4.7µF		16V
C4728	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C4729	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C4731	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C4732	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C4735	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4736	1-126-964-11	ELECT	10µF	20%	50V
C4737	1-126-964-11	ELECT	10µF	20%	50V
C4738	1-126-933-11	ELECT	100µF	20%	16V
C4739	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4740	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C4741	1-126-933-11	ELECT	100µF	20%	16V
C4742	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4743	1-104-664-11	ELECT	47µF	20%	16V
C4744	1-126-964-11	ELECT	10µF	20%	50V
C4745	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4746	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C4747	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C4748	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C4751	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C4752	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C4755	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C4756	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C4757	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C4758	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C4759	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C4761	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4762	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C4763	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C4764	1-104-664-11	ELECT	47µF	20%	16V
C4766	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C4767	1-163-007-11	CERAMIC CHIP	680pF	10%	50V
C4768	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C4769	1-163-007-11	CERAMIC CHIP	680pF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>	
CF4701	1-409-327-00	TRAP, CERAMIC (6.5MHz)	
CF4702	1-760-106-11	FILTER, CERAMIC	
CF4703	1-567-100-00	FILTER, CERAMIC	
CF4704	1-760-450-21	FILTER, CERAMIC	
		<CONNECTOR>	
CN4701	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
		<DIODE>	
D4701	8-719-047-16	DIODE BAS216	
D4702	8-719-158-49	DIODE UDZ-TE-17-12B	
D4703	8-719-158-49	DIODE UDZ-TE-17-12B	
D4704	8-719-047-16	DIODE BAS216	
D4705	8-719-421-57	DIODE MA73-TW	
D4706	8-719-421-57	DIODE MA73-TW	
D4707	8-719-421-57	DIODE MA73-TW	
		<FERRITE BEAD>	
FB4701	1-414-235-22	INDUCTOR 0µH	
		<FILTER>	
FL4701	1-233-764-21	FILTER	
FL4704	1-236-071-11	ENCAPSULATED COMPONENT	
FL4705	1-236-071-11	ENCAPSULATED COMPONENT	
		<IC>	
IC4702	8-759-654-42	IC MSP3410D-C5QA-B4	
IC4703	8-759-701-36	IC NJM3403AM(TE2)	
IC4704	8-759-478-90	IC U2861B-µFP-G3	
IC4705	8-752-072-94	IC CXA1875AM-T4	
		<COIL>	
L4701	1-414-183-41	INDUCTOR 10µH	
L4702	1-414-189-31	INDUCTOR 100µH	
L4703	1-414-189-31	INDUCTOR 100µH	
		<TRANSISTOR>	
Q4701	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q4702	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q4703	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q4706	8-729-120-28	TRANSISTOR 2SC2412K-T-146-R	
Q4707	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q4708	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q4709	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q4710	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q4711	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	
Q4712	8-729-216-22	TRANSISTOR 2SA1037K-T-146-R	

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R4701	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4702	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4703	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4704	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4706	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4707	1-216-037-00	RES-CHIP	330	5%	1/10W
R4709	1-216-295-11	SHORT	0		
R4710	1-216-025-11	RES-CHIP	100	5%	1/10W
R4711	1-216-025-11	RES-CHIP	100	5%	1/10W
R4712	1-216-025-11	RES-CHIP	100	5%	1/10W
R4715	1-216-025-11	RES-CHIP	100	5%	1/10W
R4720	1-216-295-11	SHORT	0		
R4725	1-216-025-11	RES-CHIP	100	5%	1/10W
R4726	1-216-295-11	SHORT	0		
R4727	1-216-025-11	RES-CHIP	100	5%	1/10W
R4730	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4731	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4732	1-216-025-11	RES-CHIP	100	5%	1/10W
R4733	1-216-025-11	RES-CHIP	100	5%	1/10W
R4737	1-216-295-11	SHORT	0		
R4738	1-216-295-11	SHORT	0		
R4739	1-216-295-11	SHORT	0		
R4740	1-216-295-11	SHORT	0		
R4741	1-216-025-11	RES-CHIP	100	5%	1/10W
R4742	1-216-025-11	RES-CHIP	100	5%	1/10W
R4743	1-216-025-11	RES-CHIP	100	5%	1/10W
R4747	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R4748	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4749	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4752	1-216-043-91	RES-CHIP	560	5%	1/10W
R4757	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4758	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4759	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4760	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4761	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4769	1-216-025-11	RES-CHIP	100	5%	1/10W
R4773	1-216-295-11	SHORT	0		
R4777	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4778	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4779	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4780	1-216-295-11	SHORT	0		
R4781	1-216-035-00	RES-CHIP	270	5%	1/10W
R4782	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4783	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4784	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4785	1-216-295-11	SHORT	0		
R4786	1-216-043-91	RES-CHIP	560	5%	1/10W
R4787	1-216-043-91	RES-CHIP	560	5%	1/10W
R4788	1-216-043-91	RES-CHIP	560	5%	1/10W
R4789	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R4790	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R4791	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R4792	1-216-025-11	RES-CHIP	100	5%	1/10W
R4793	1-216-025-11	RES-CHIP	100	5%	1/10W
R4794	1-216-295-11	SHORT	0		

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R4796	1-216-295-11	SHORT	0		
R4797	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4798	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4799	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4800	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4801	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4802	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		<CRYSTAL>			
X4701	1-781-148-21	VIBRATOR, CRYSTAL (18.432MHz)			
		**********			
	* A-1391-060-A	T MOUNT			
		**********			
		<CONNECTOR>			
CN8001	* 1-564-506-11	PLUG, CONNECTOR 3P			
		<SWITCH>			
S8001	1-570-245-11	SWITCH, MICRO (LAMP DOOR)			
		**********			
		MISCELLANEOUS			
		**********			
	⚠ A-1484-885-A	LAMP BLOCK ASSY			
	⚠ A-1485-164-A	OPTICS UNIT BLOCK ASSY			
	⚠ 1-419-965-11	COIL, CHOKE 27.0mH			
	⚠ 1-468-510-11	POWER BLOCK			
	1-529-714-11	SPEAKER (10cm)			
	1-529-715-11	SPEAKER (2cm)			
	1-529-716-11	SPEAKER (13X7cm)			
	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)			
	1-543-982-11	CORE, FERRITE			
	⚠ 1-698-696-21	FAN, DC			
	⚠ 1-765-286-11	CORD, POWER (50SX100/50SX100K)			
	⚠ 1-776-204-11	CORD, POWER (50SX100U)			
	1-790-082-11	CABLE, RF			
	⚠ 1-900-253-70	THERMOSTAT			
		**********			

REF. NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES & PACKING MATERIALS	
		**********	
	X-4033-430-1	WRENCH ASSY	
	X-4038-257-1	ASSY, CLEANING CLOTH	
	* 4-030-895-01	JOINT	
	* 4-059-461-01	BAG, PROTECTION	
	* 4-078-285-01	INDIVIDUAL CARTON	
	* 4-078-286-01	TRAY	
	* 4-078-287-01	BOARD, TOP	
	* 4-078-288-01	BOARD, BOTTOM	
	* 4-078-289-01	CUSHION (UPPER) (ASSY)	
	* 4-078-290-01	CUSHION (LOWER) (ASSY)	
	4-078-836-11	MANUAL, INSTRUCTION (ENGLISH, GERMAN, ITALIAN, FRENCH, DUTCH, GREEK, TURKISH) (50SX100)	
	4-078-836-21	MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, DANISH, NORWEGIAN, SWEDISH, FINNISH) (50SX100)	
	4-078-836-31	MANUAL, INSTRUCTION (ENGLISH, CZECH, POLISH, HUNGARIAN, RUSSIAN, BULGARIAN) (50SX100K)	
	4-078-836-41	MANUAL, INSTRUCTION (ENGLISH) (50SX100U)	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
	4-392-004-01	CLIP	
		REMOTE COMMANDER	
		**********	
	1-476-360-11	REMOTE COMMANDER (RM-903)	

9-965-423-01

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HNC. VE Group, FPD Business Div.

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